

FIG 1. A

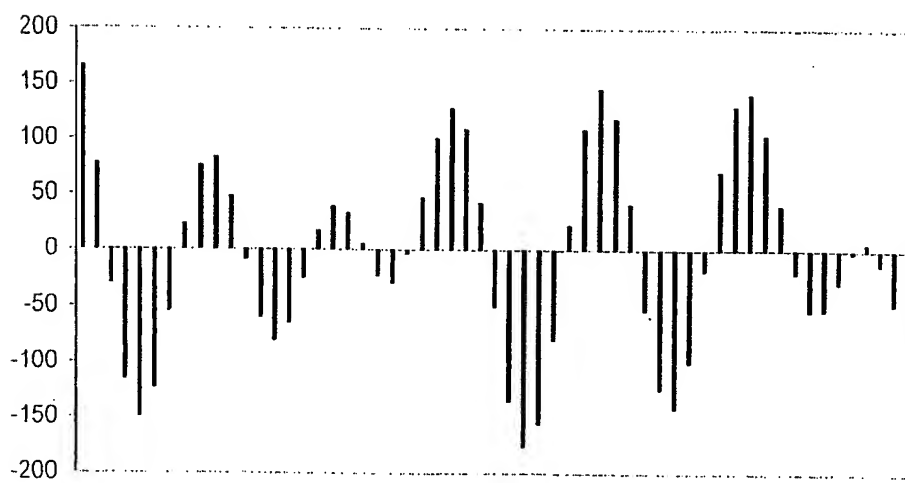


FIG 1. B

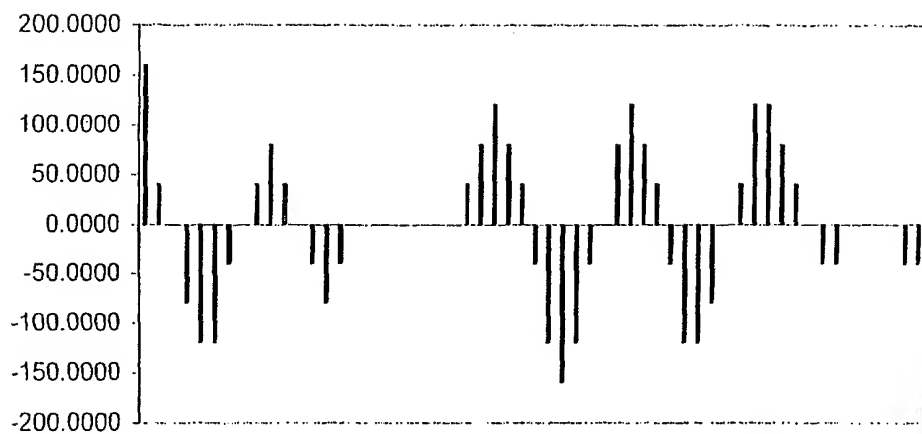


FIG 1. C

$$g(x) = c(n) \sqrt{\frac{2}{L}} \cos \frac{n\pi x}{L} \quad 0.5) \frac{n\pi}{L} \approx \dots$$

where,

$$c(n) = \frac{1}{\sqrt{2}} \text{ for } n = 0$$

and,

$$c(n) = 1 \text{ for all } n \neq 0$$

FIG. 1D

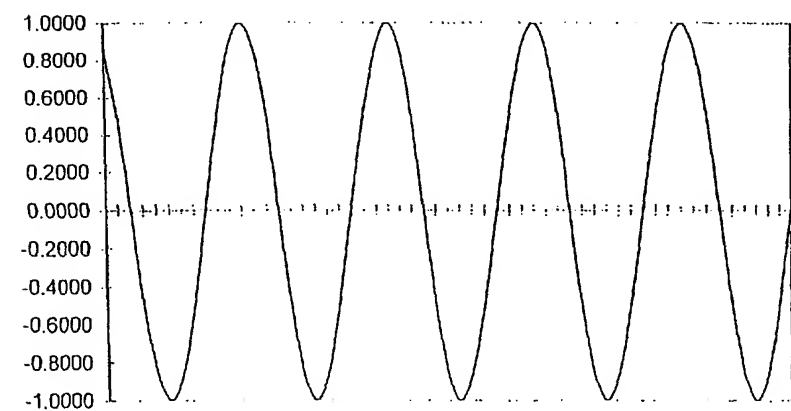
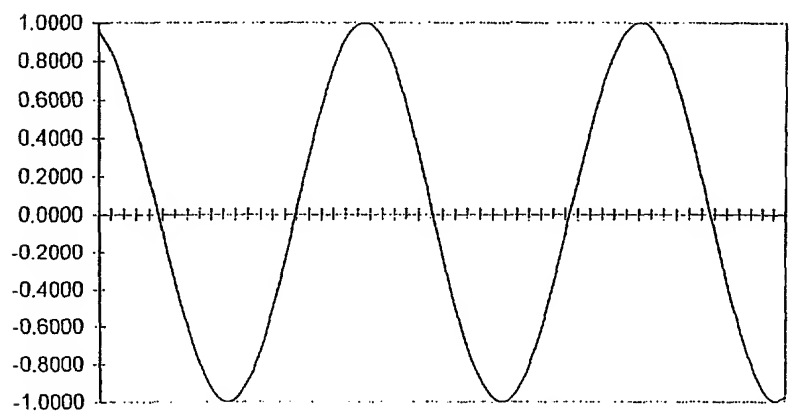
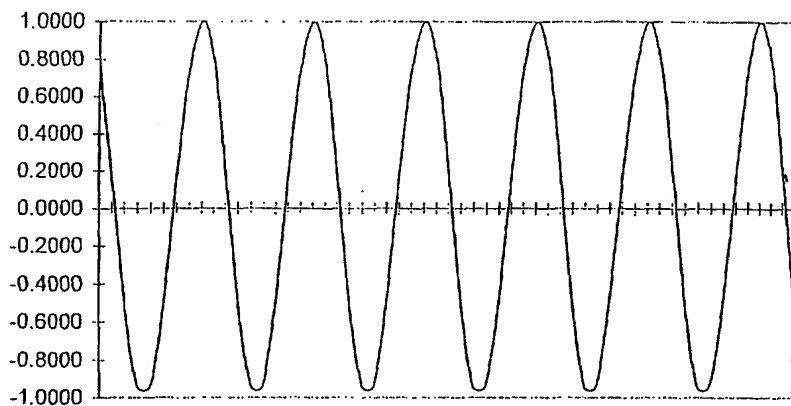


FIG. 1E

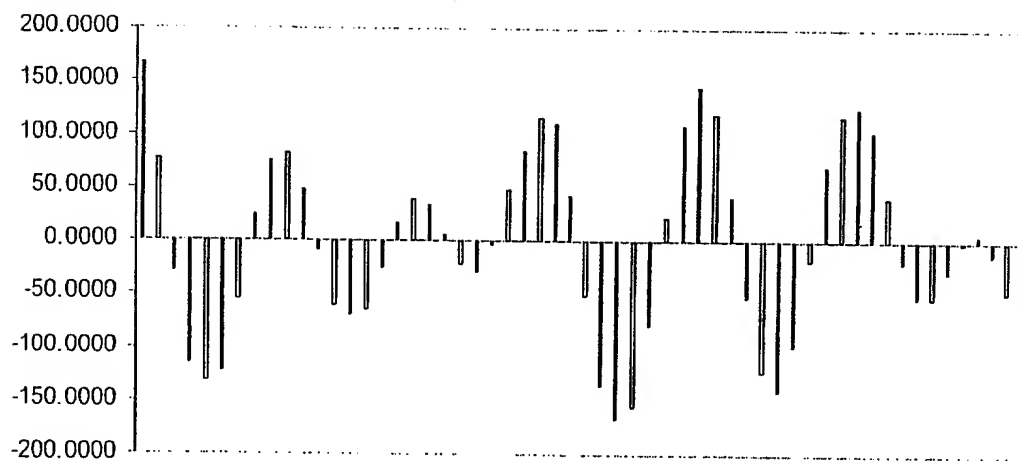


FIG 1. F

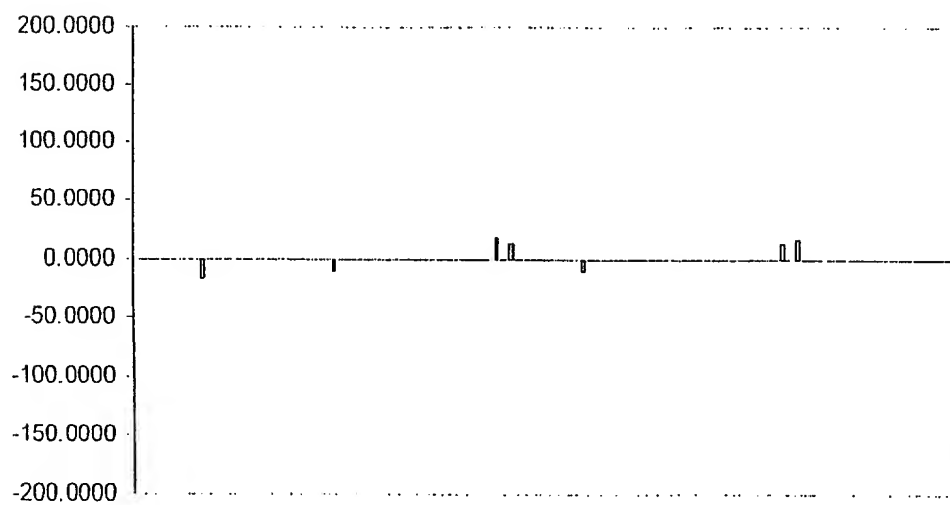


FIG 1. G

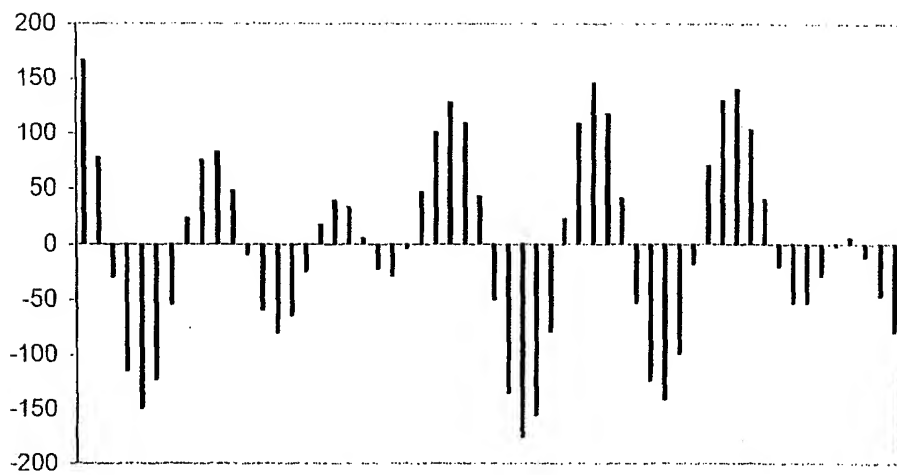


FIG 1. H

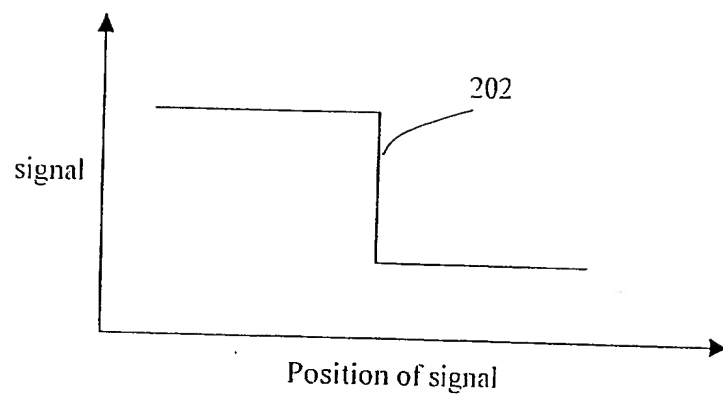


FIG. 2A

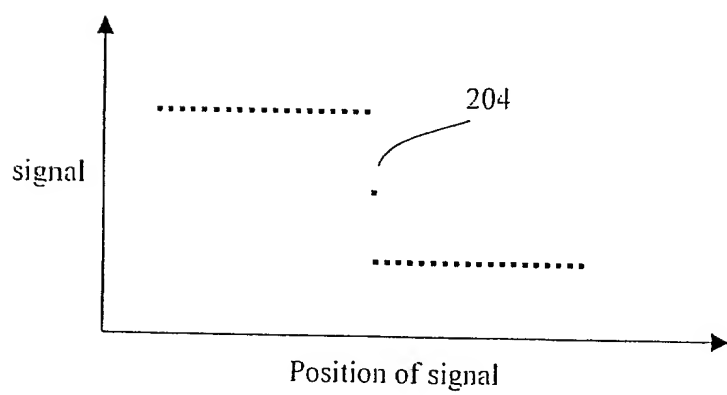


FIG. 2B

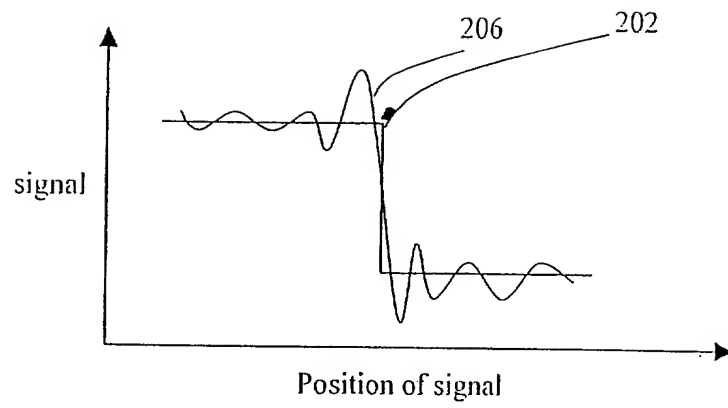


FIG.2C

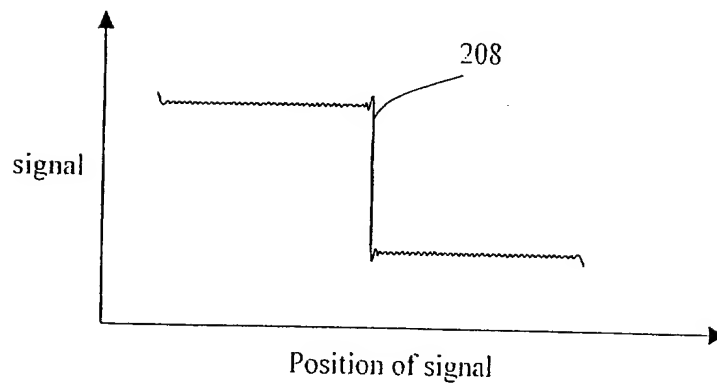
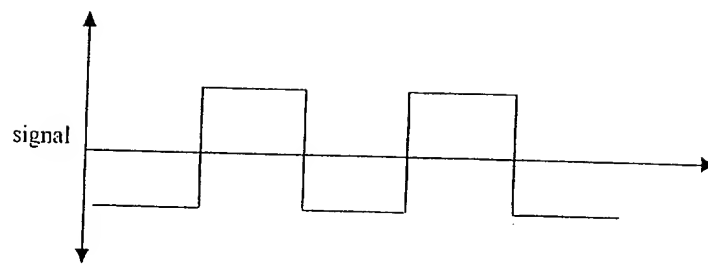
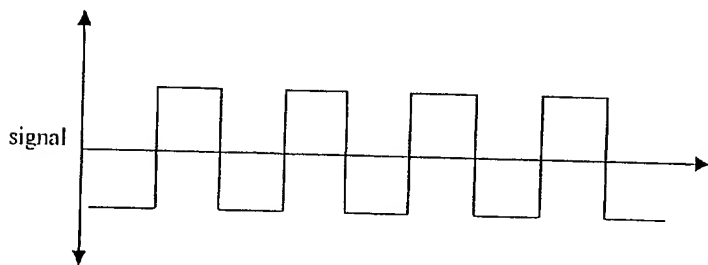


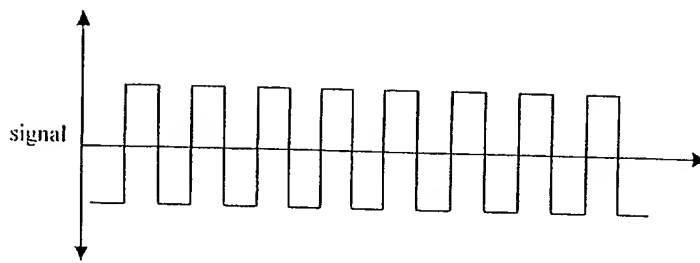
FIG.2D



Position of signal



Position of signal



Position of signal

FIG.3



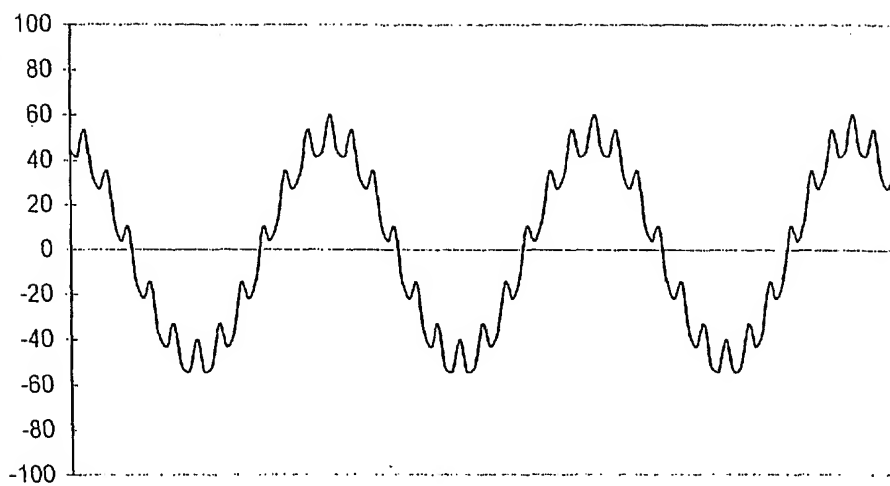


FIG.4A

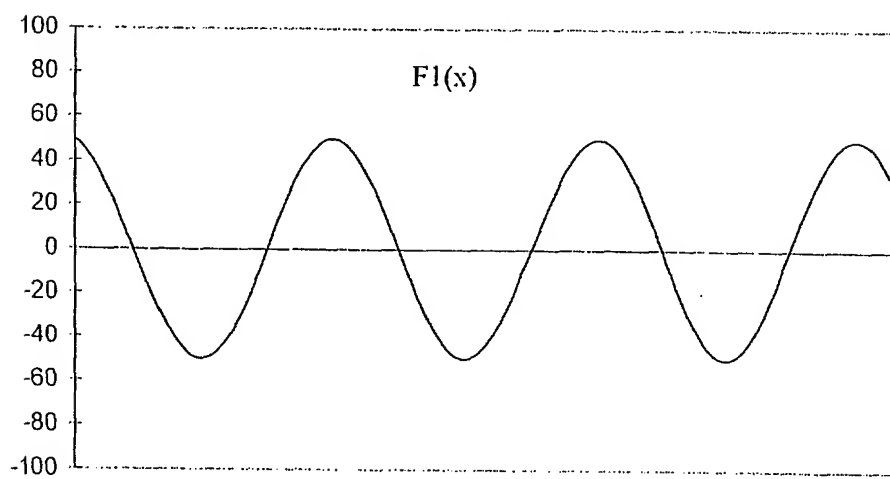


FIG.4B

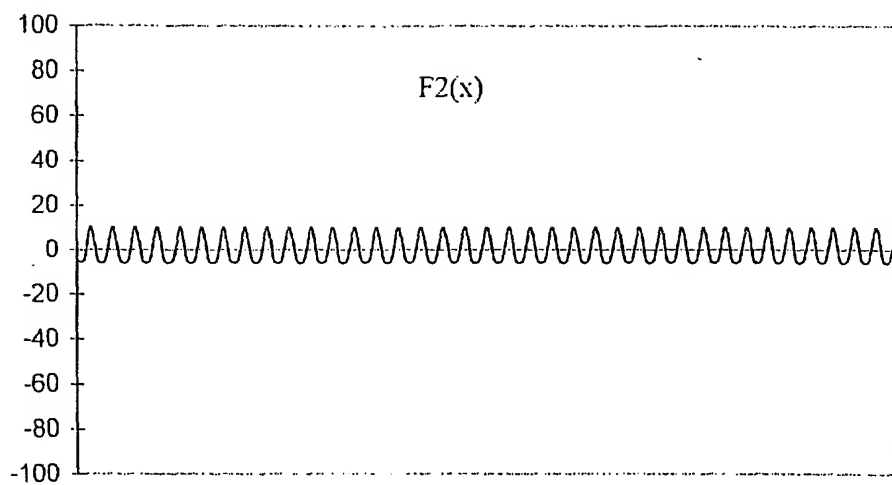


FIG.4C

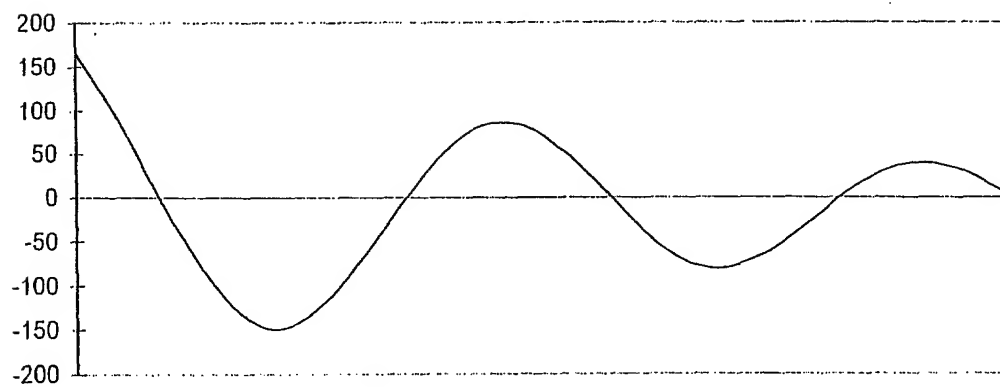


FIG.5A

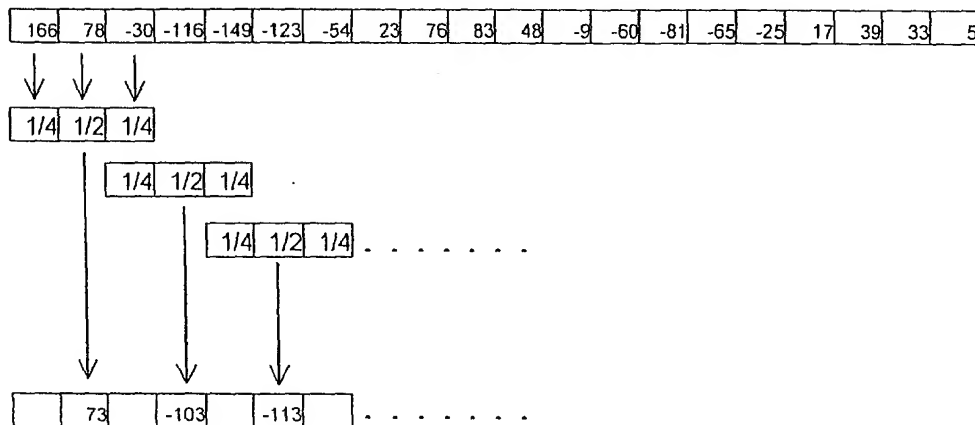
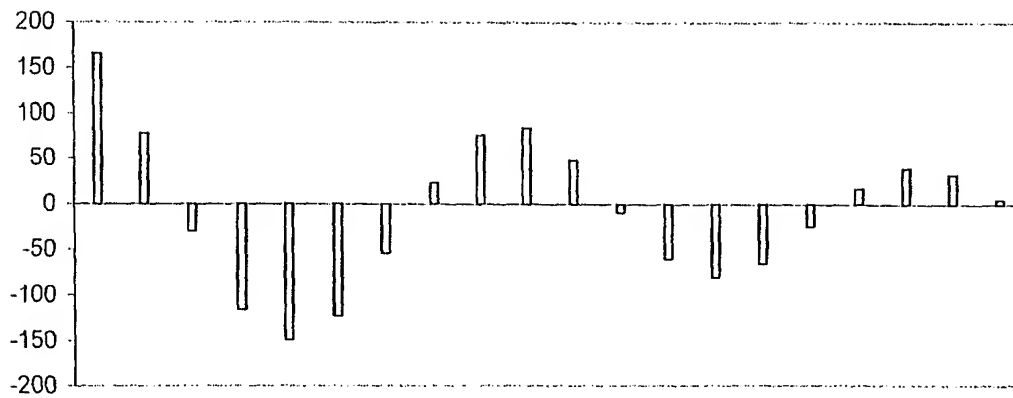


FIG.5B

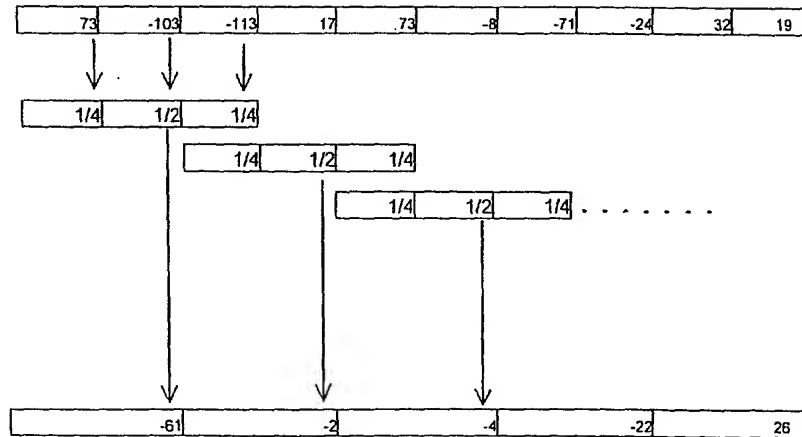
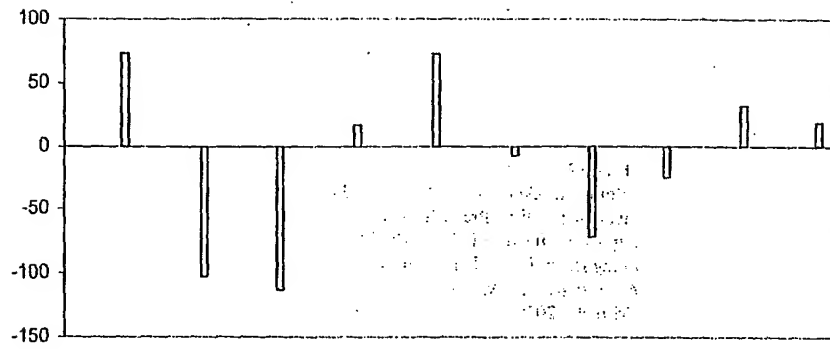
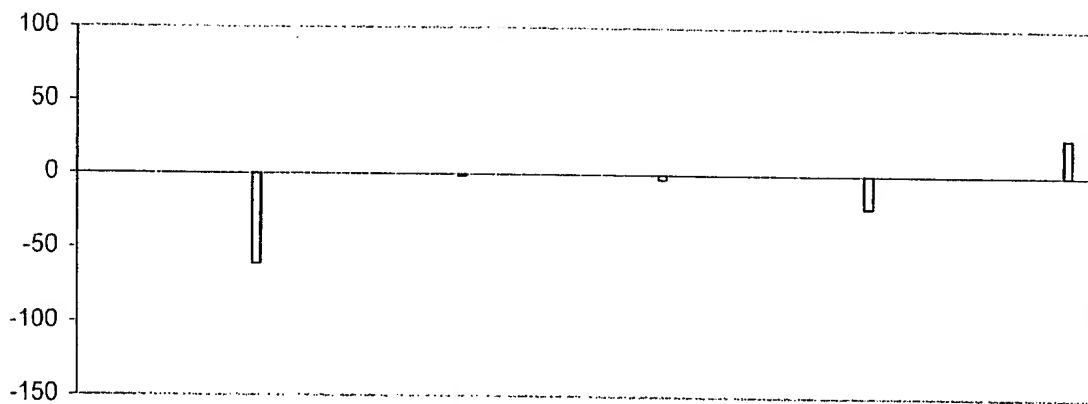


FIG.5C



-61	-2	-4	-22	26
-----	----	----	-----	----

FIG.5D

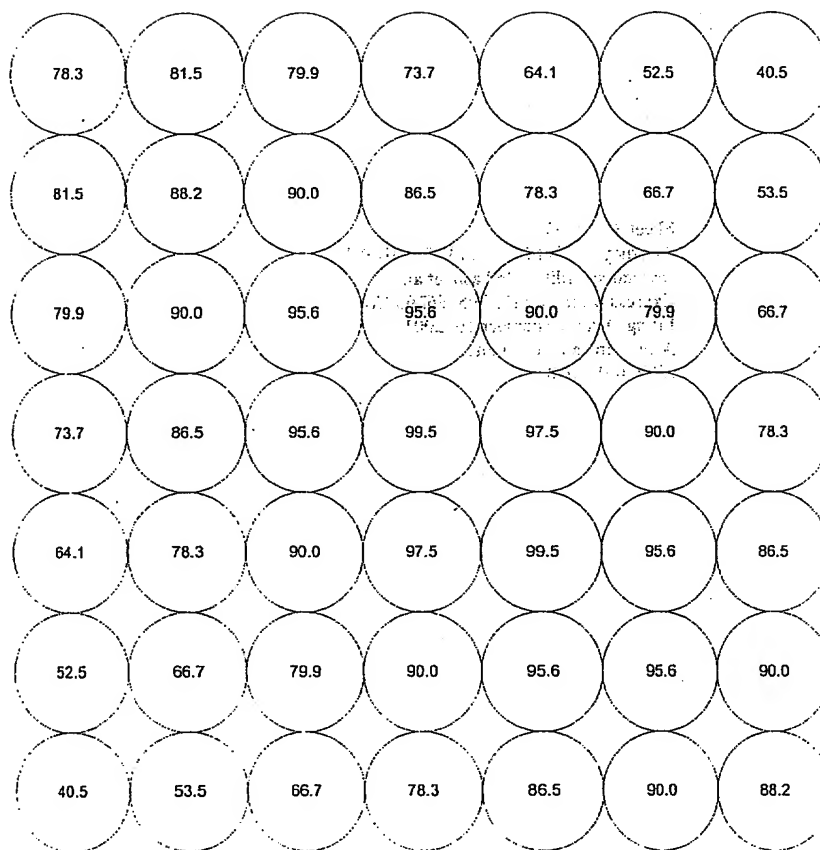


FIG. 6A

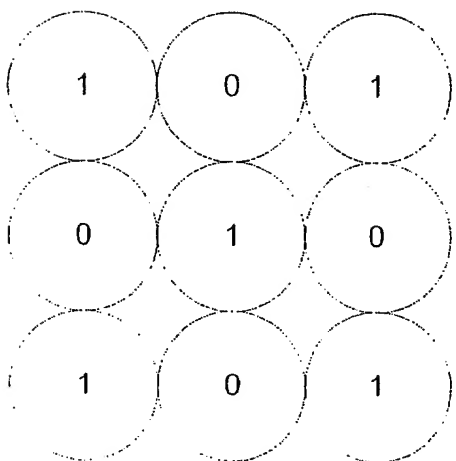
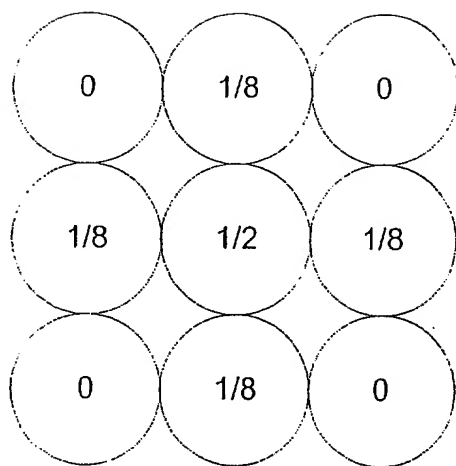


FIG. 6B

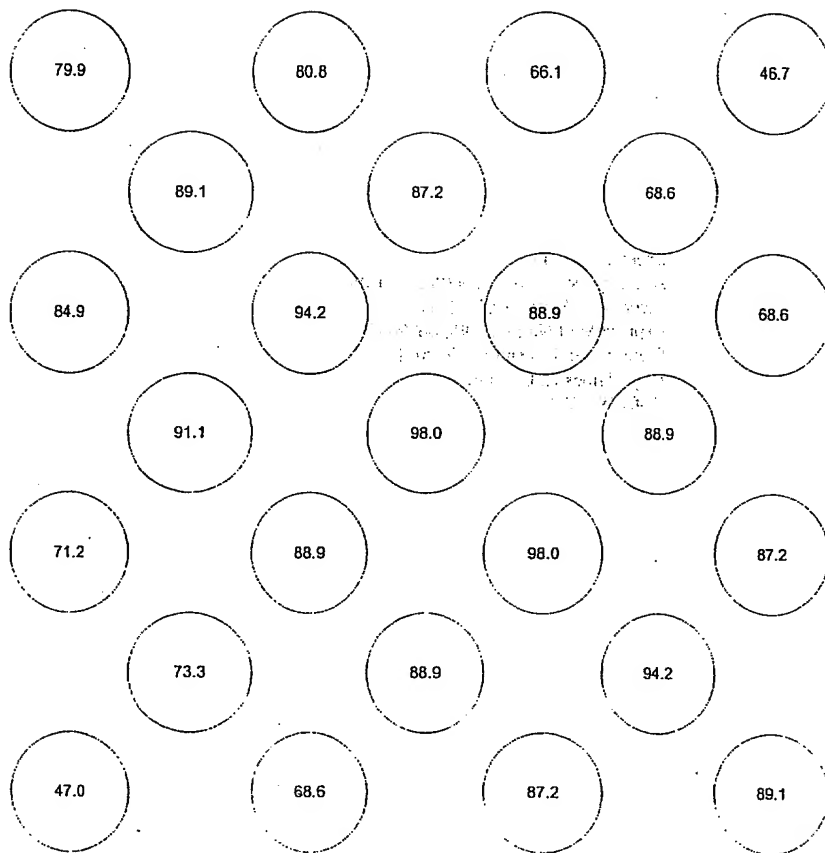


FIG. 6C



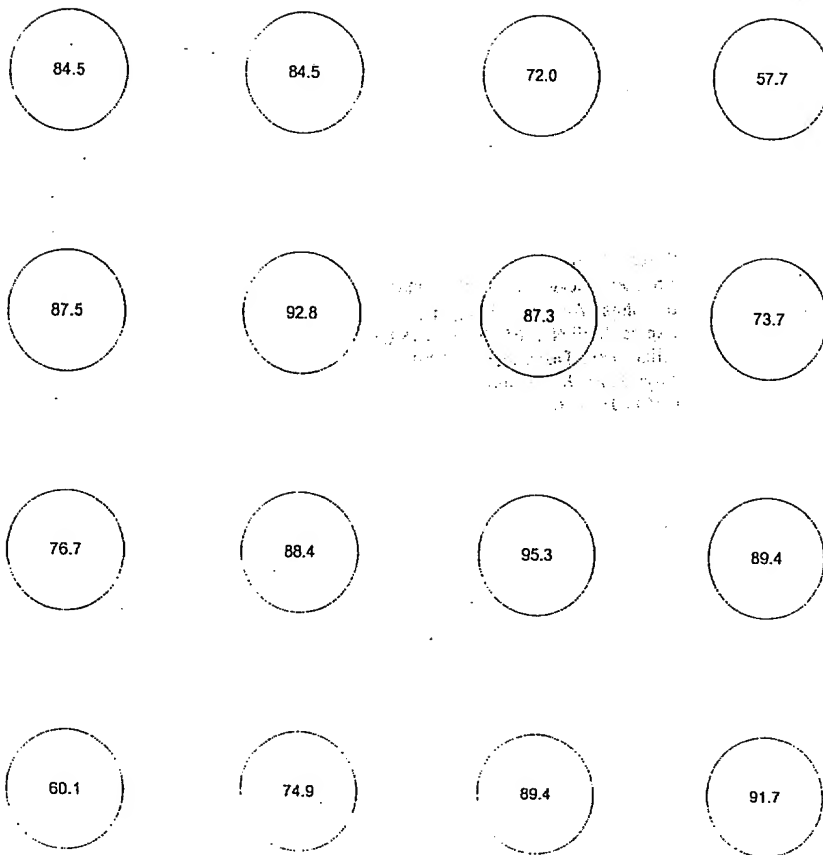


FIG. 6D

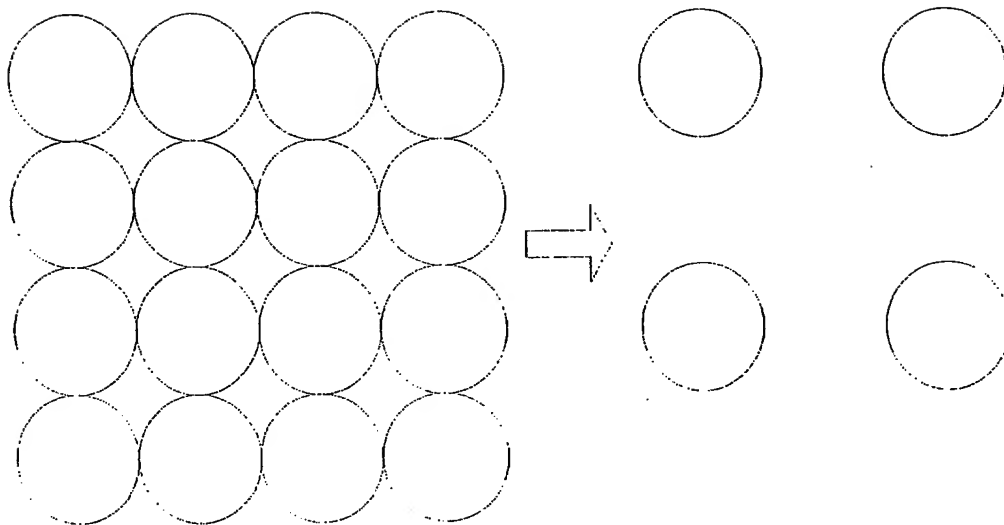
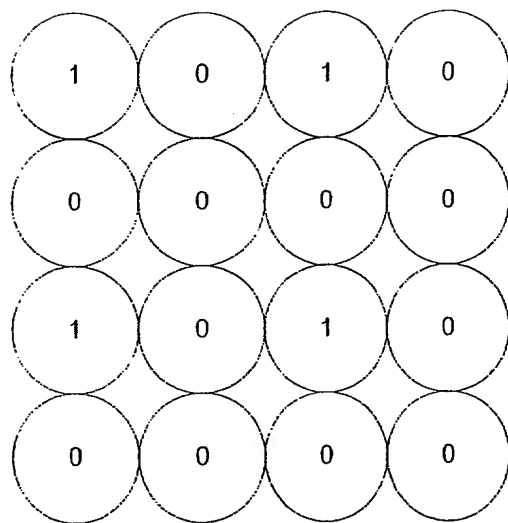


FIG. 6E

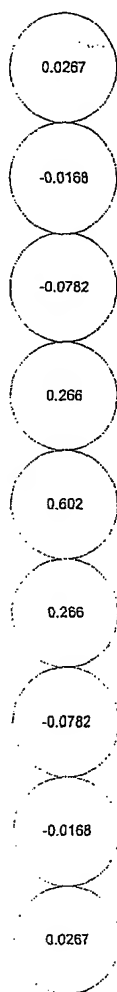


FIG. 6F

FIG. 6F

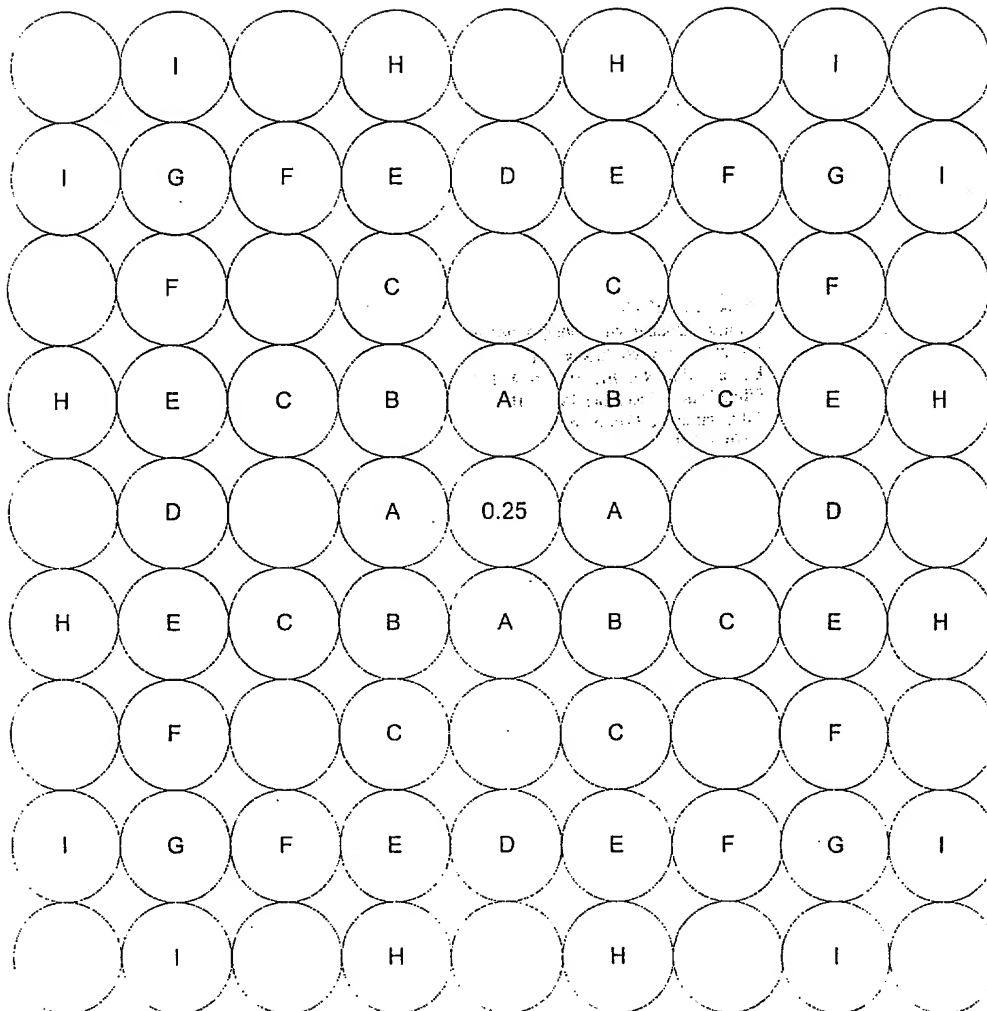


FIG. 6G

$A = 0.1609$   
 $B = 0.0712$   
 $C = -0.0208$   
 $D = -0.0101$   
 $E = -0.0045$   
 $F = 0.0013$   
 $G = 0.00028$   
 $H = 0.00713$   
 $I = -0.00045$

FIG. 7A

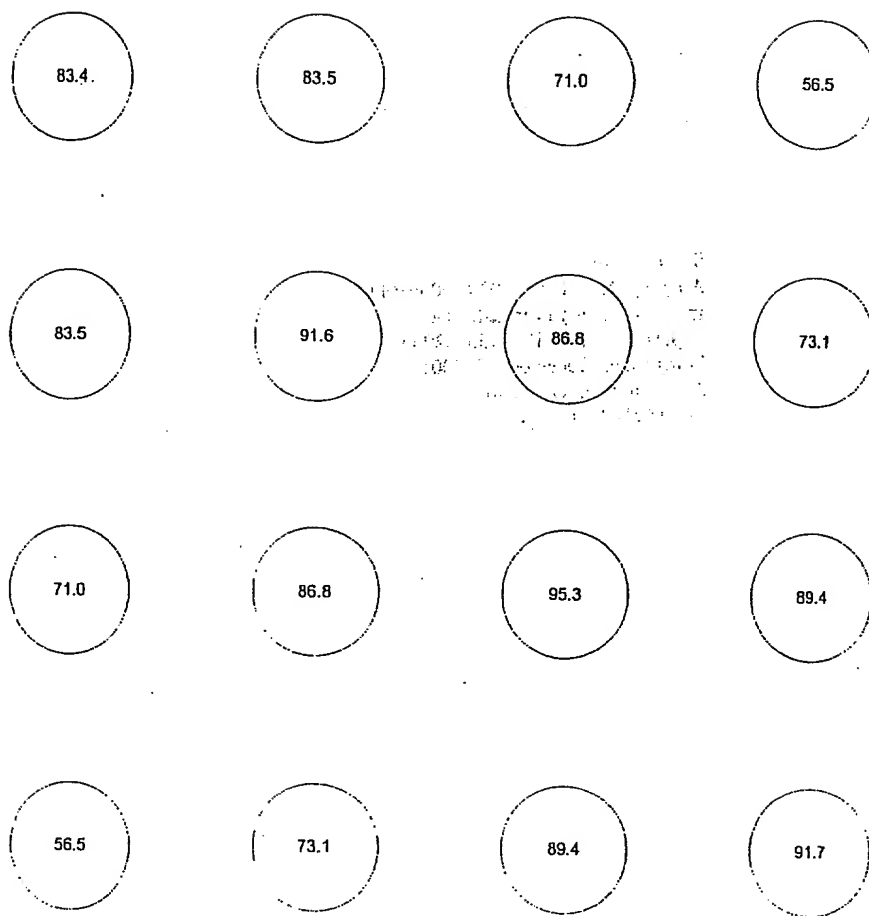


FIG. 7A

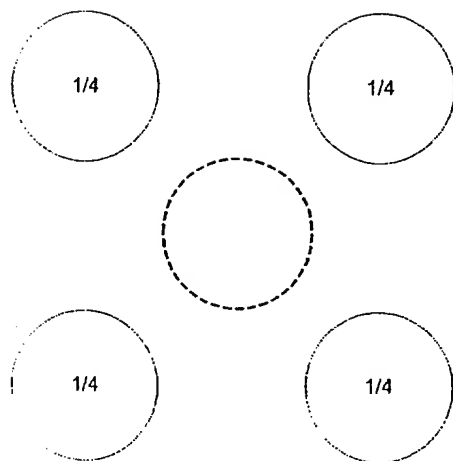


FIG. 7 B

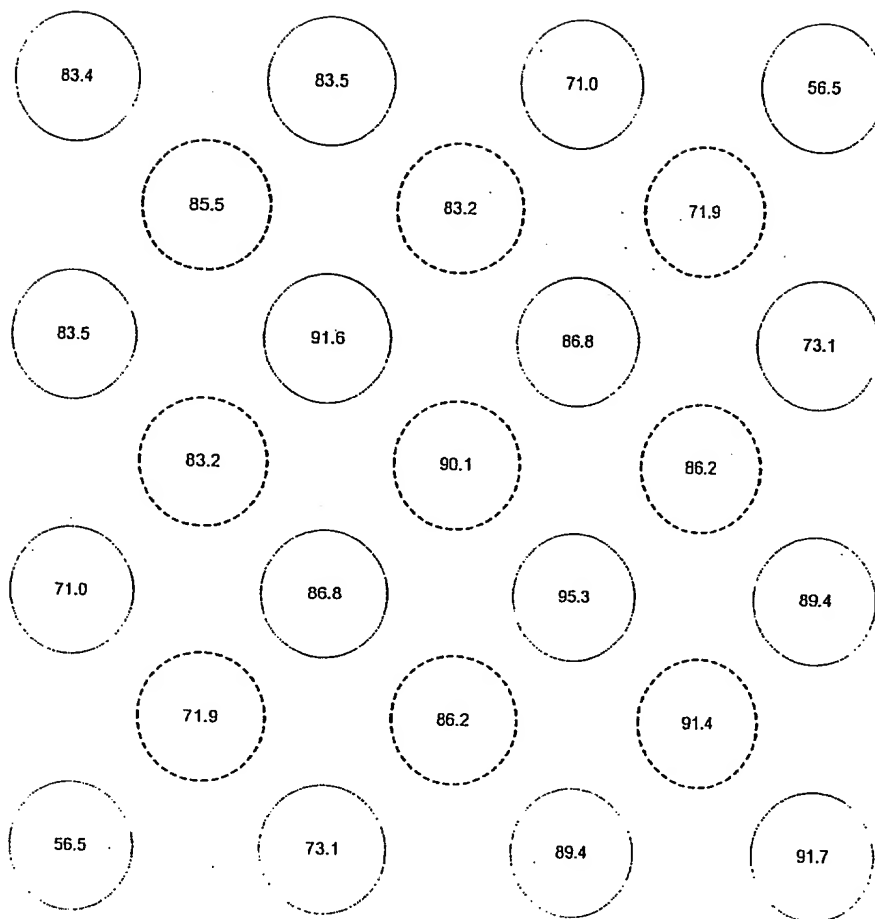


FIG. 7C

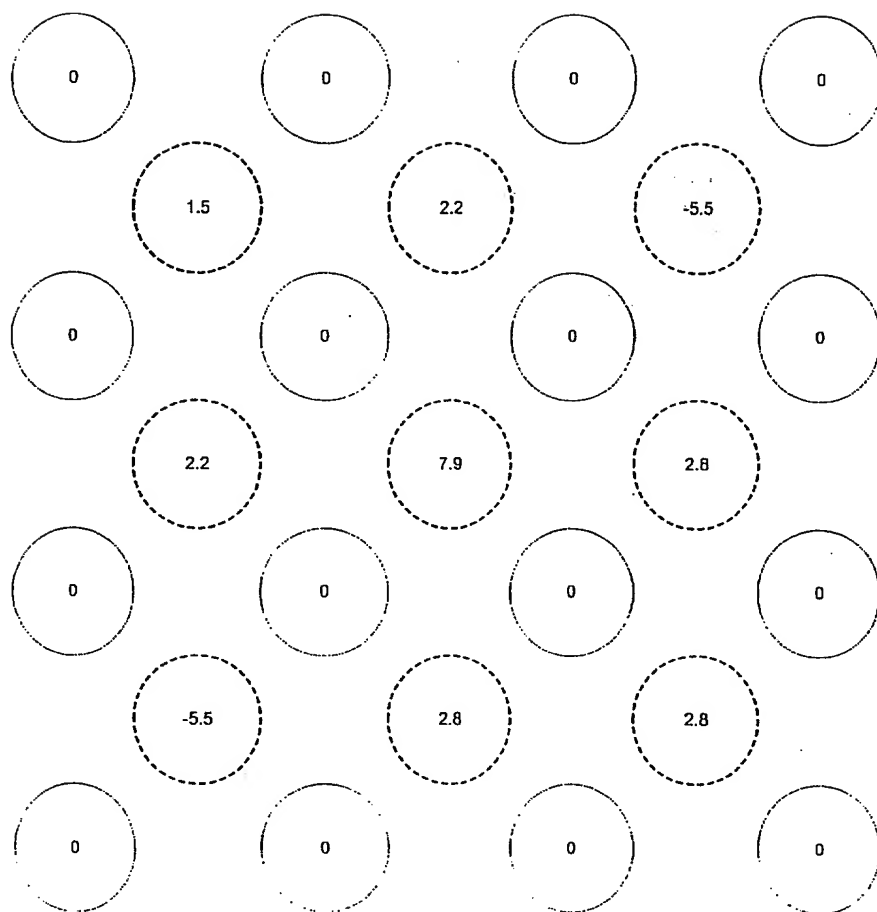


FIG. 7D



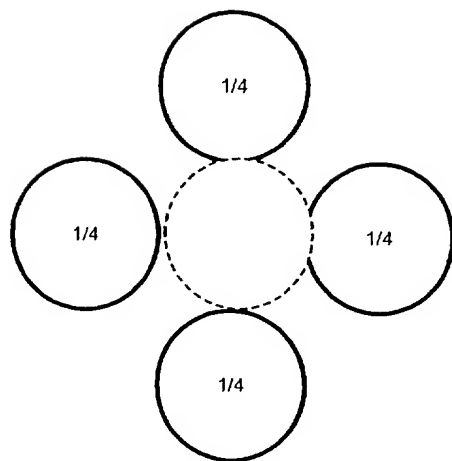


FIG. 7E

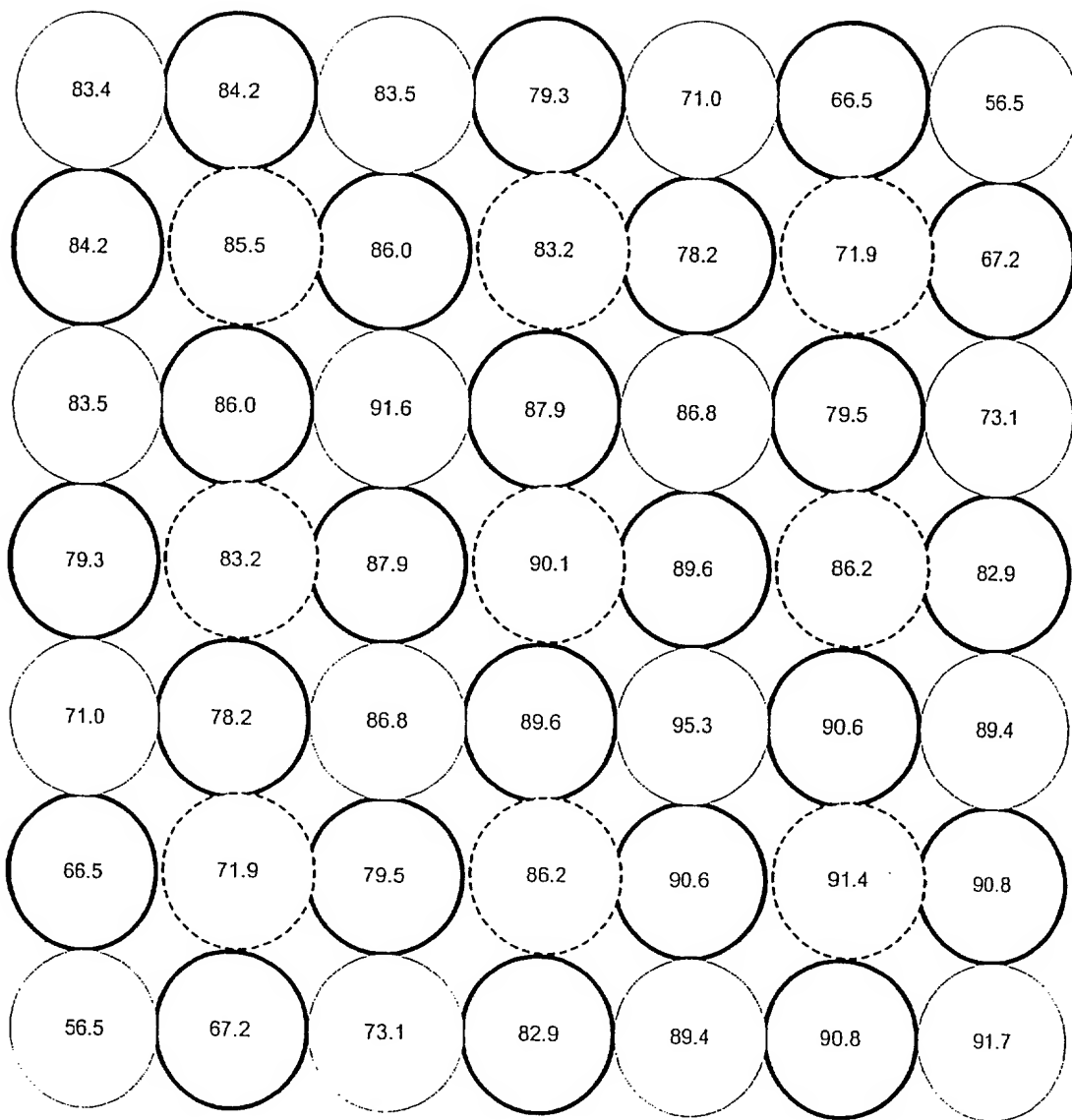


FIG. 7F

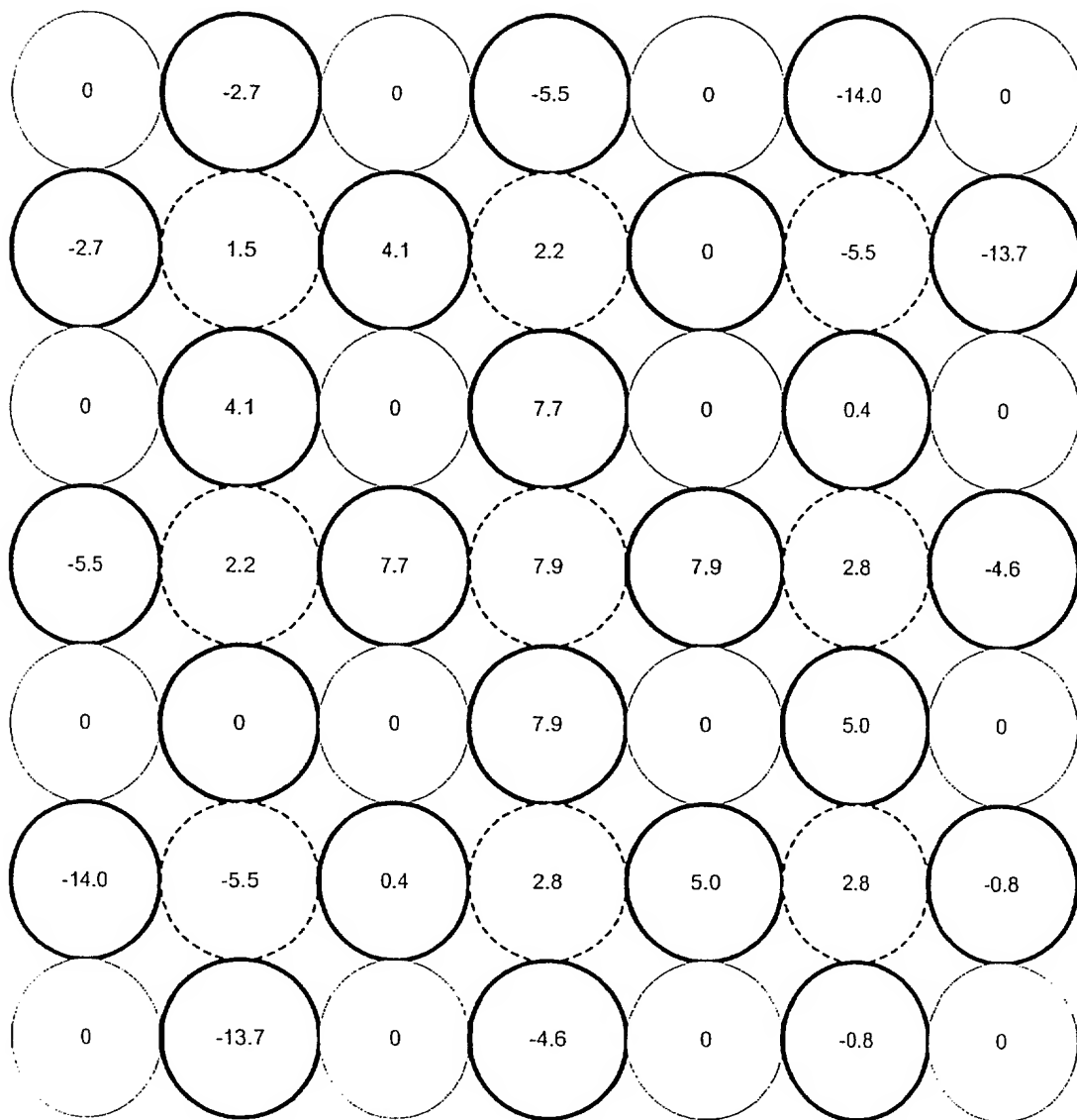


FIG. 7G

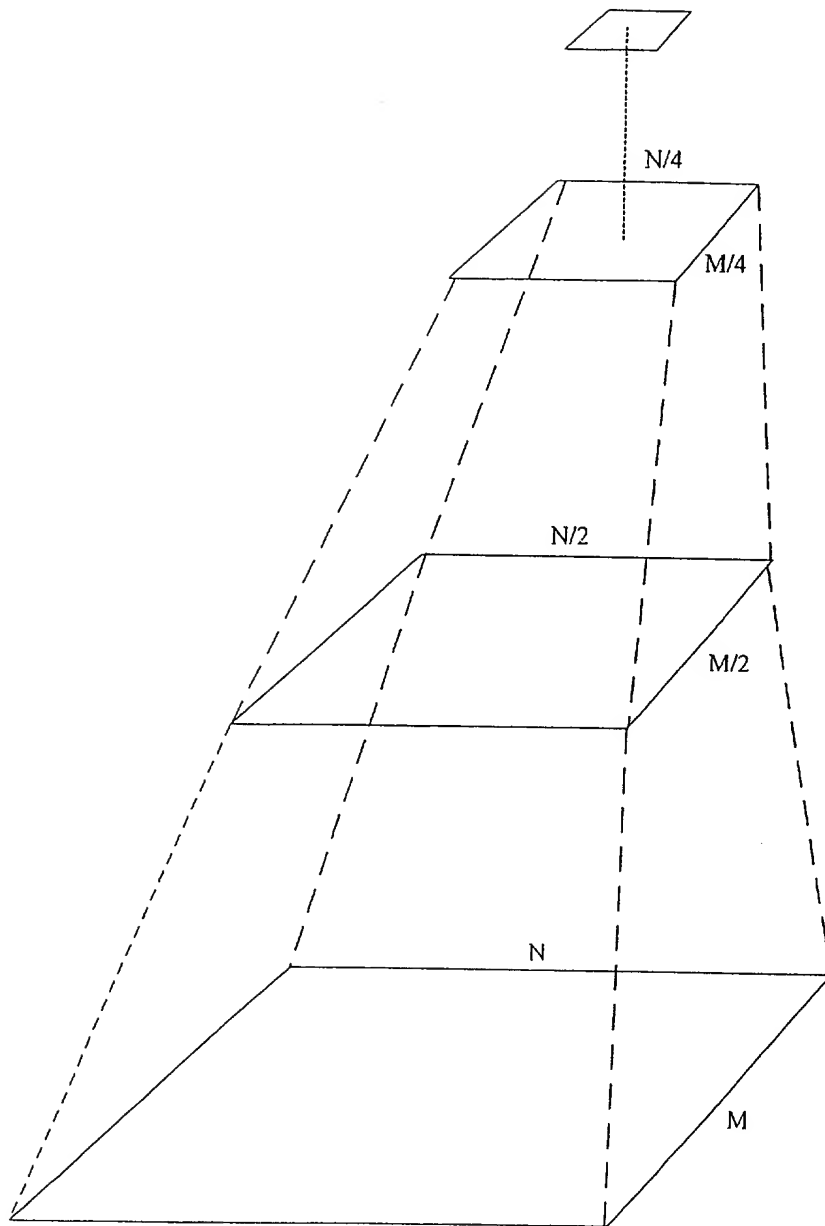


FIG. 8

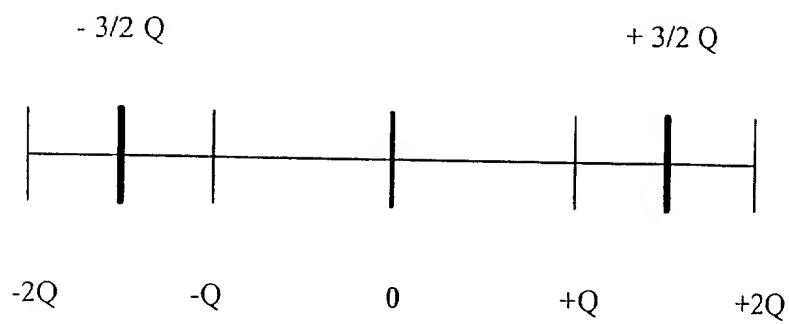


FIG. 9A

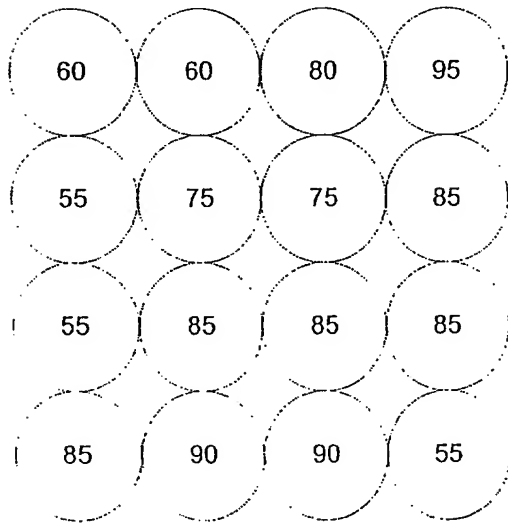
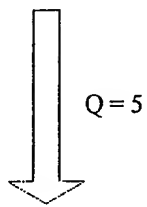
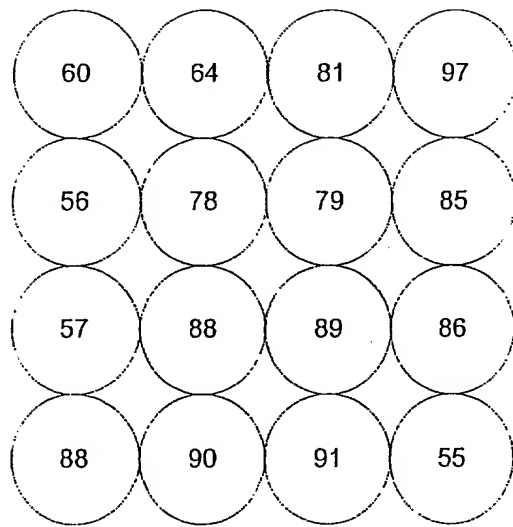


FIG. 9B

FIG. 10A

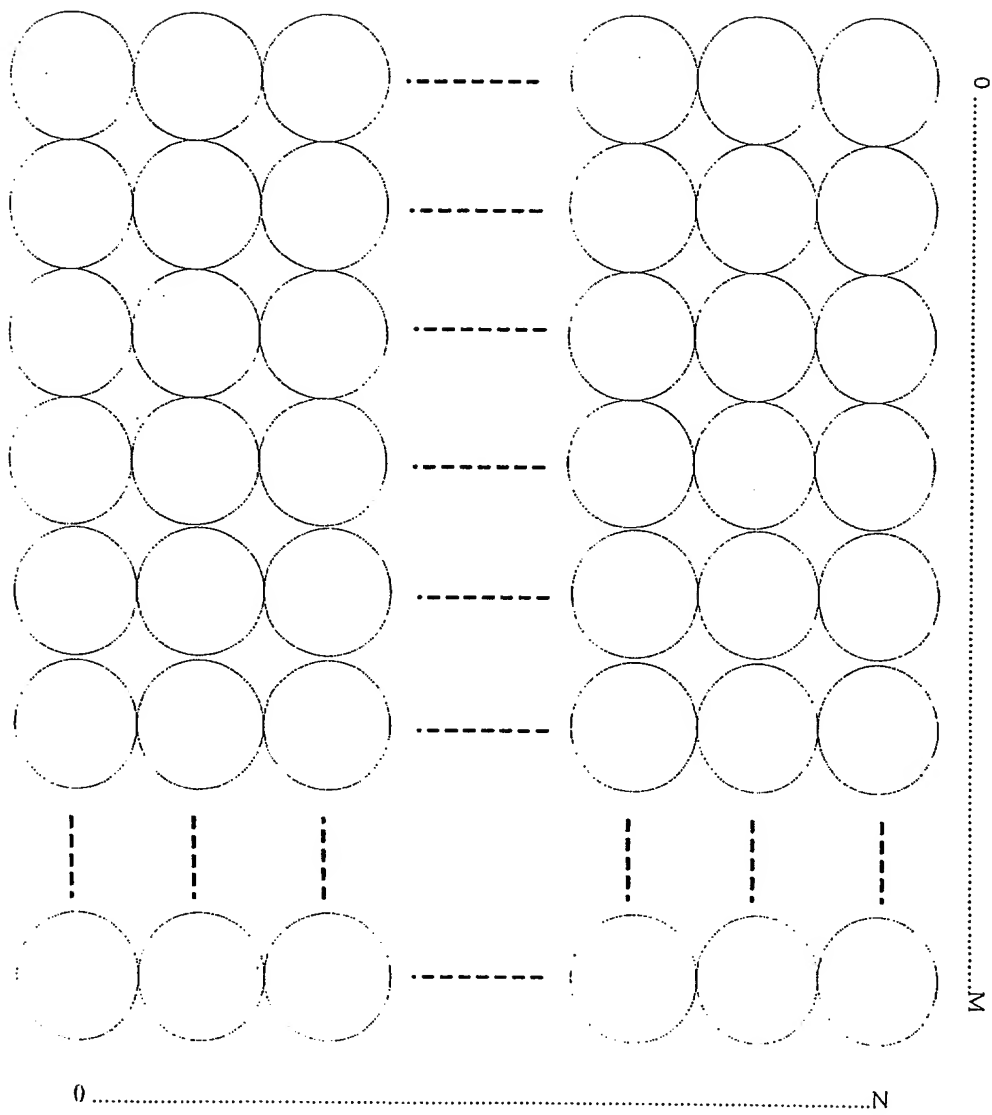


FIG. 10A

FIG. 10B

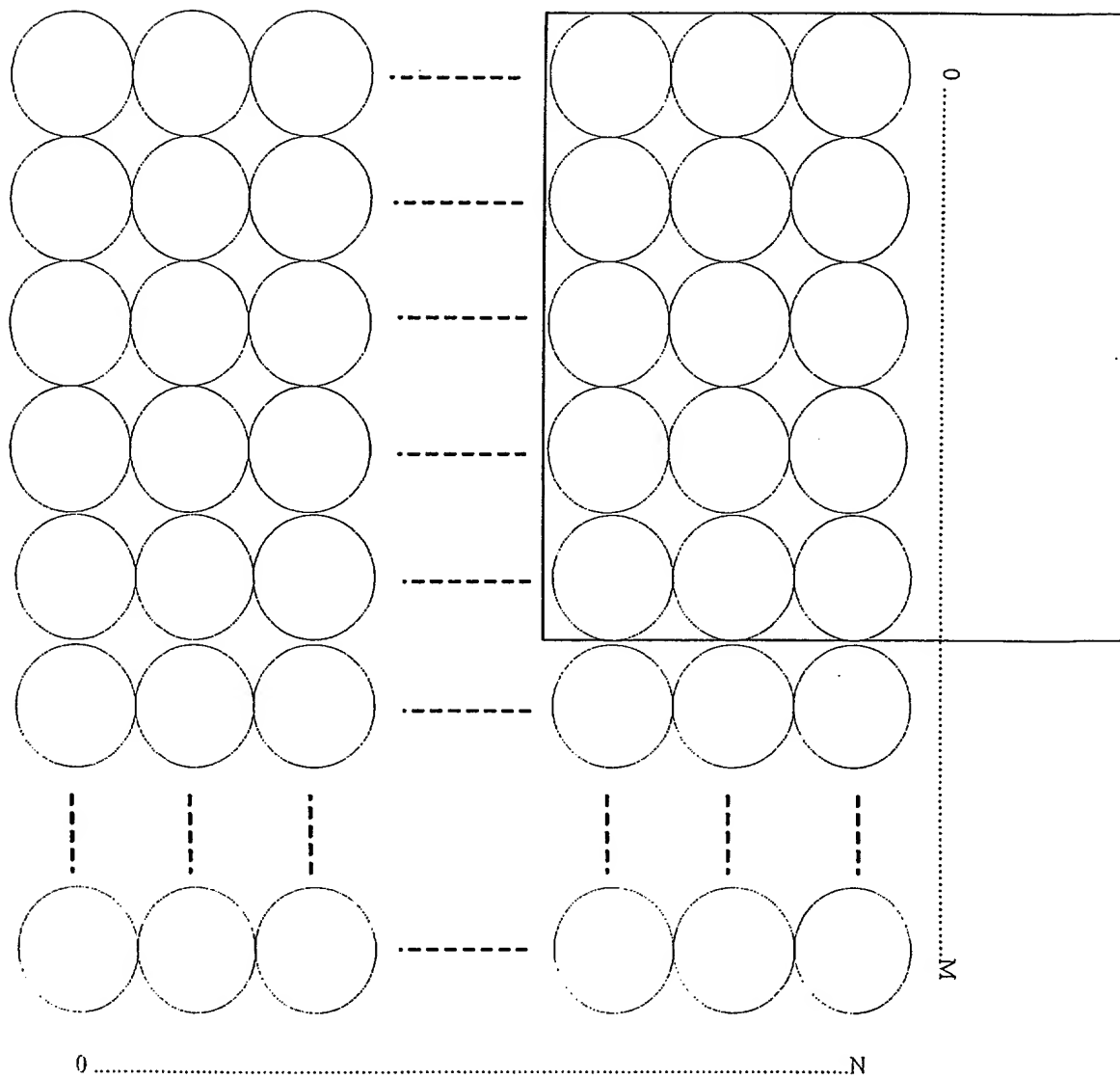


FIG. 10B



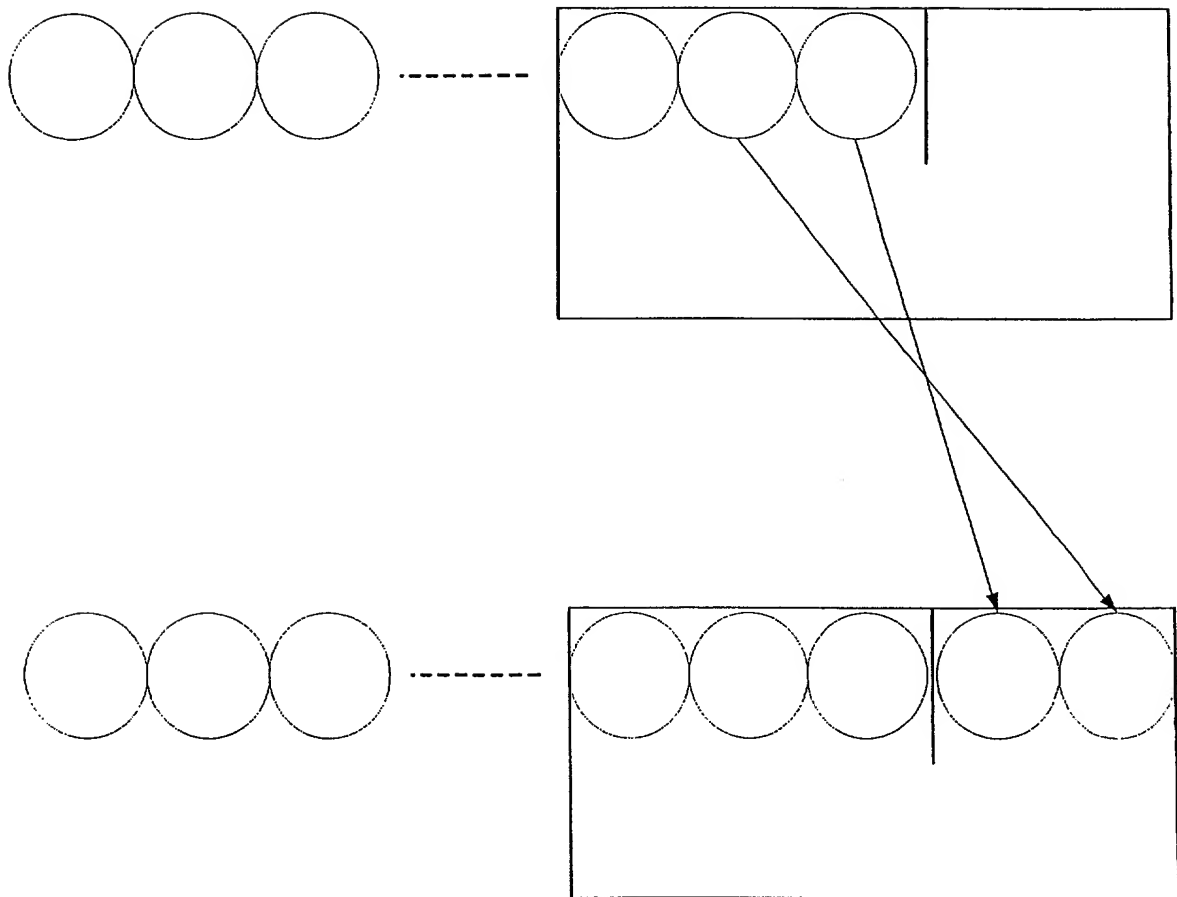


FIG. 10C

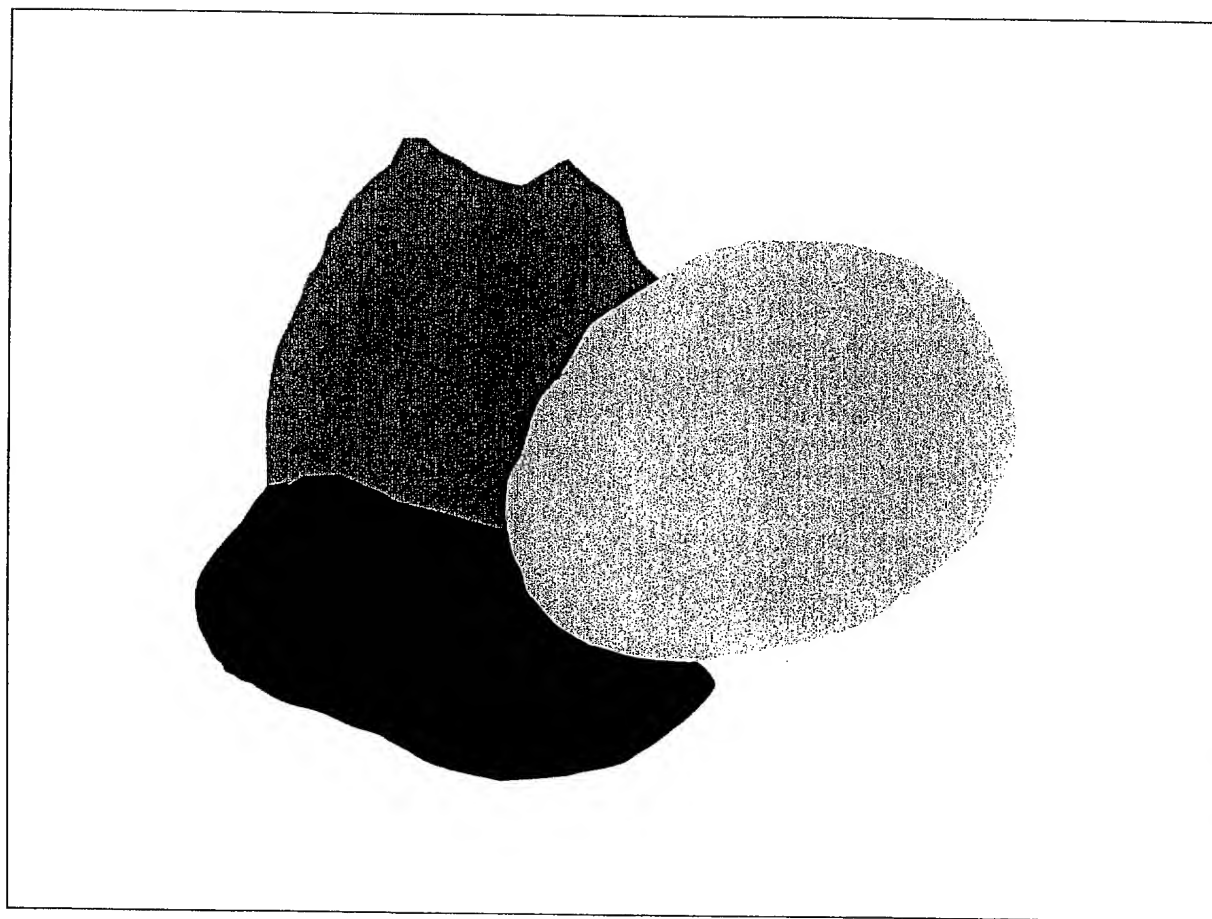
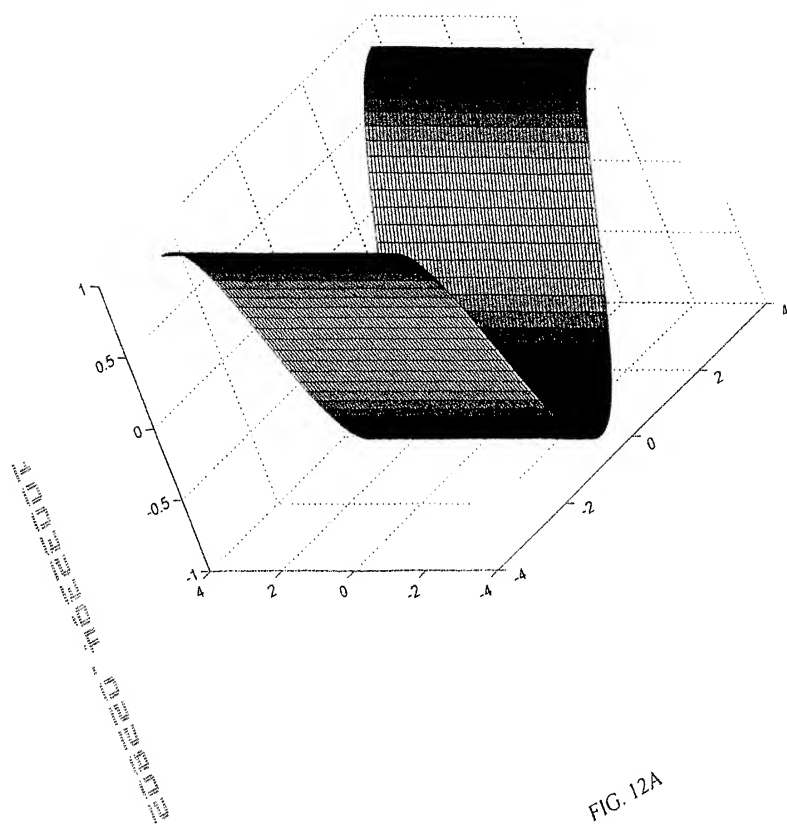


FIG. 11



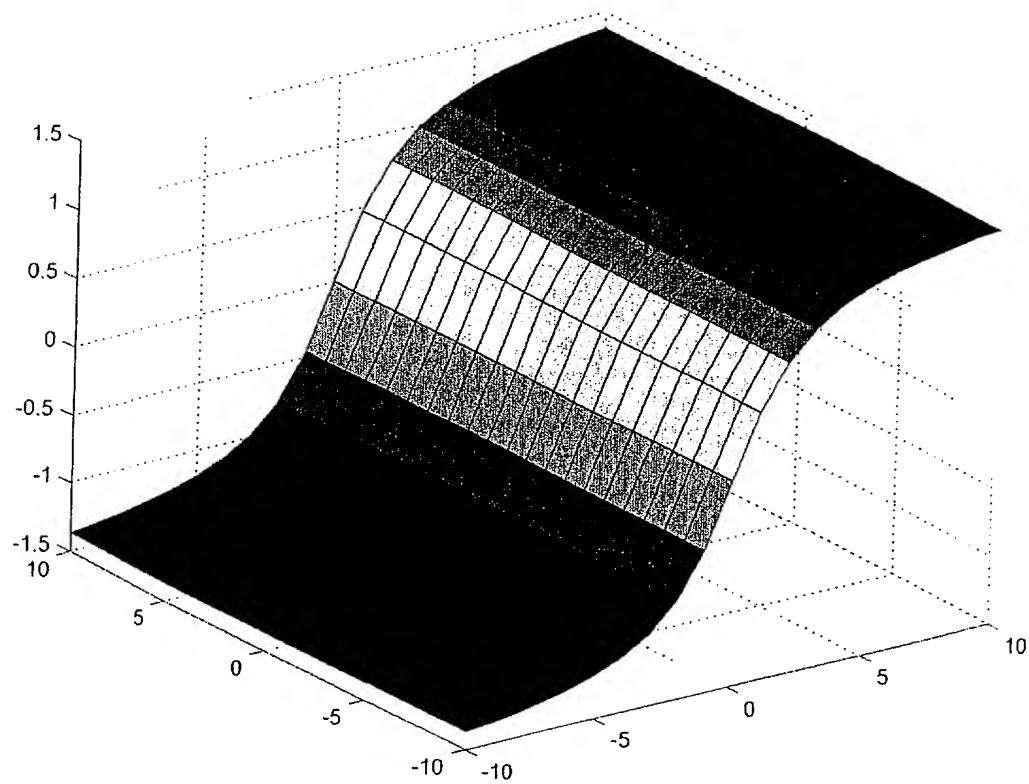


FIG. 12B

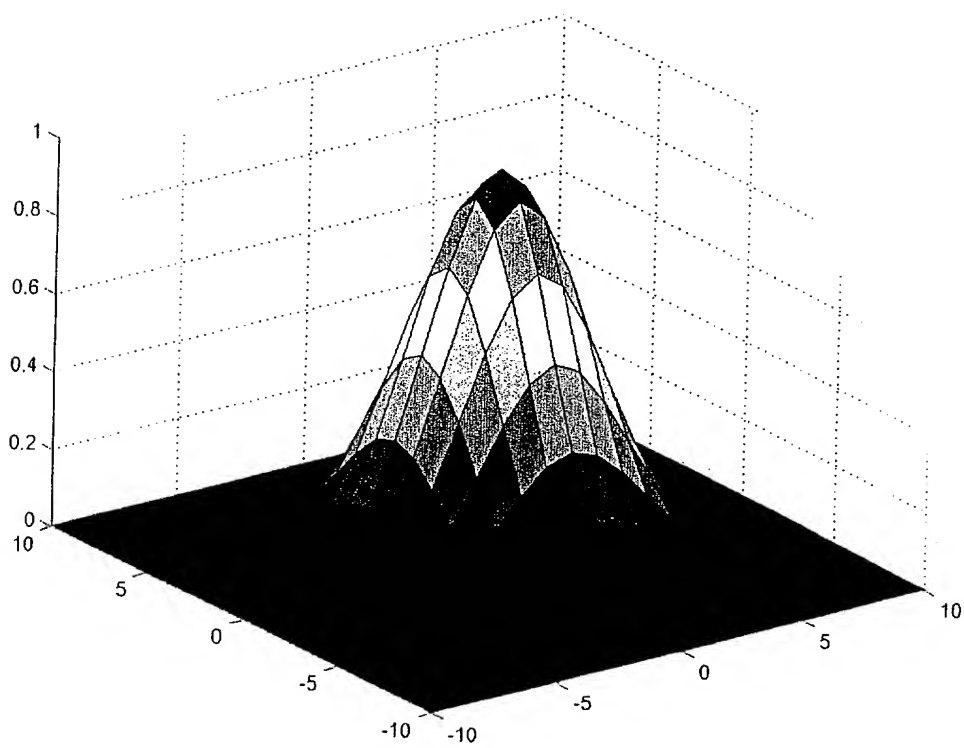


FIG. 12C

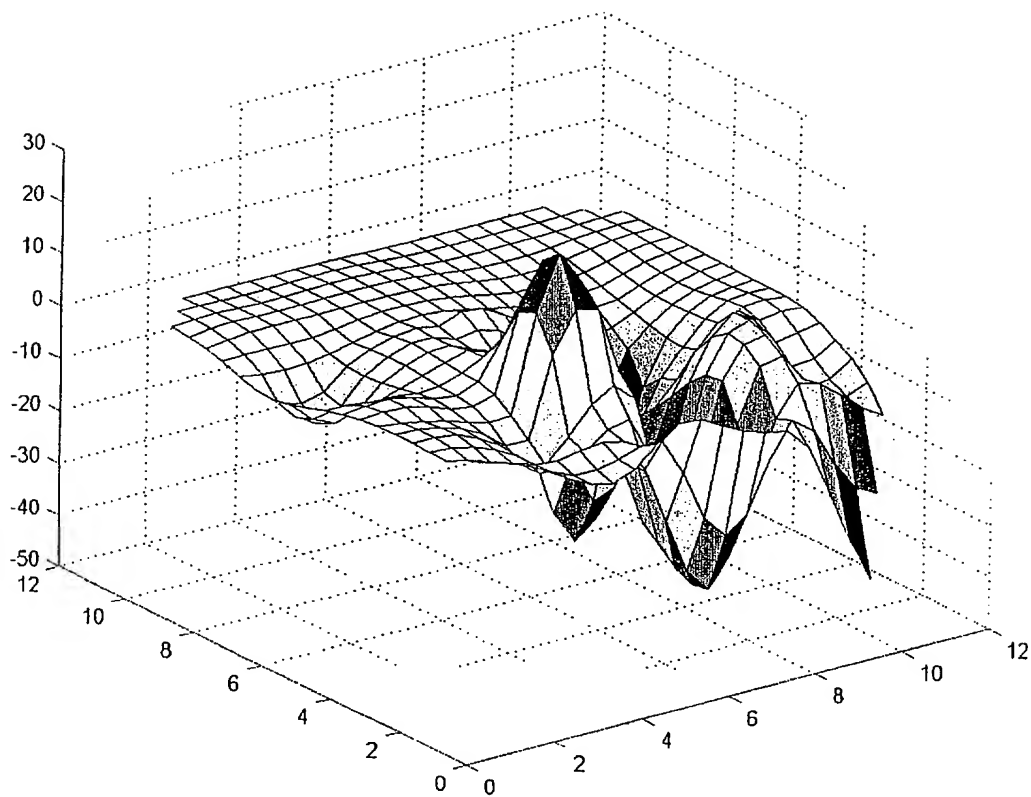


FIG. 12D

FIG. 13

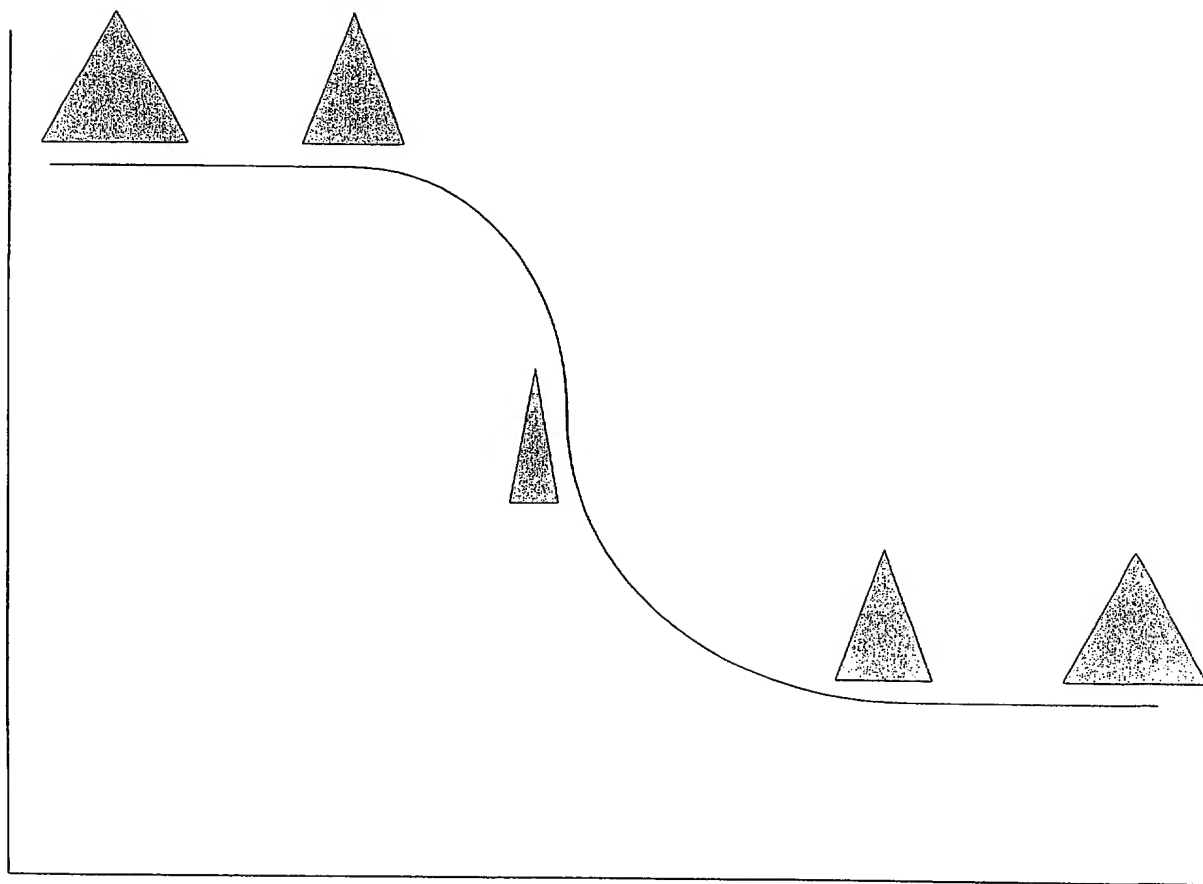


FIG. 13

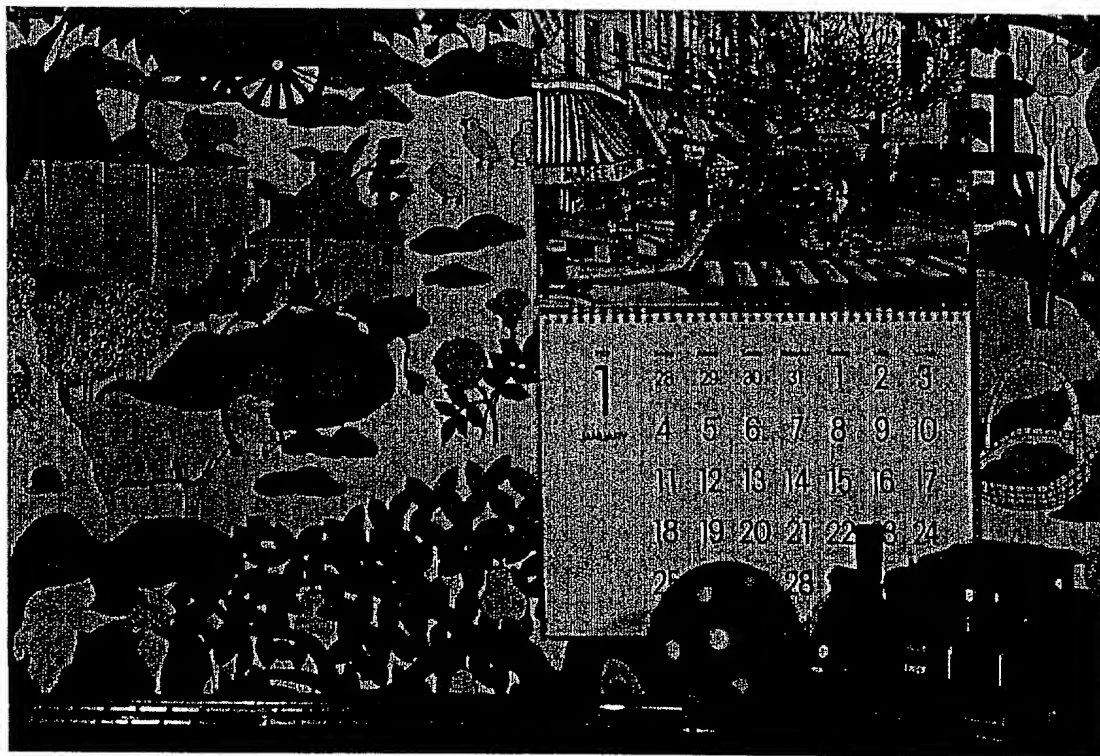


FIG. 14 A



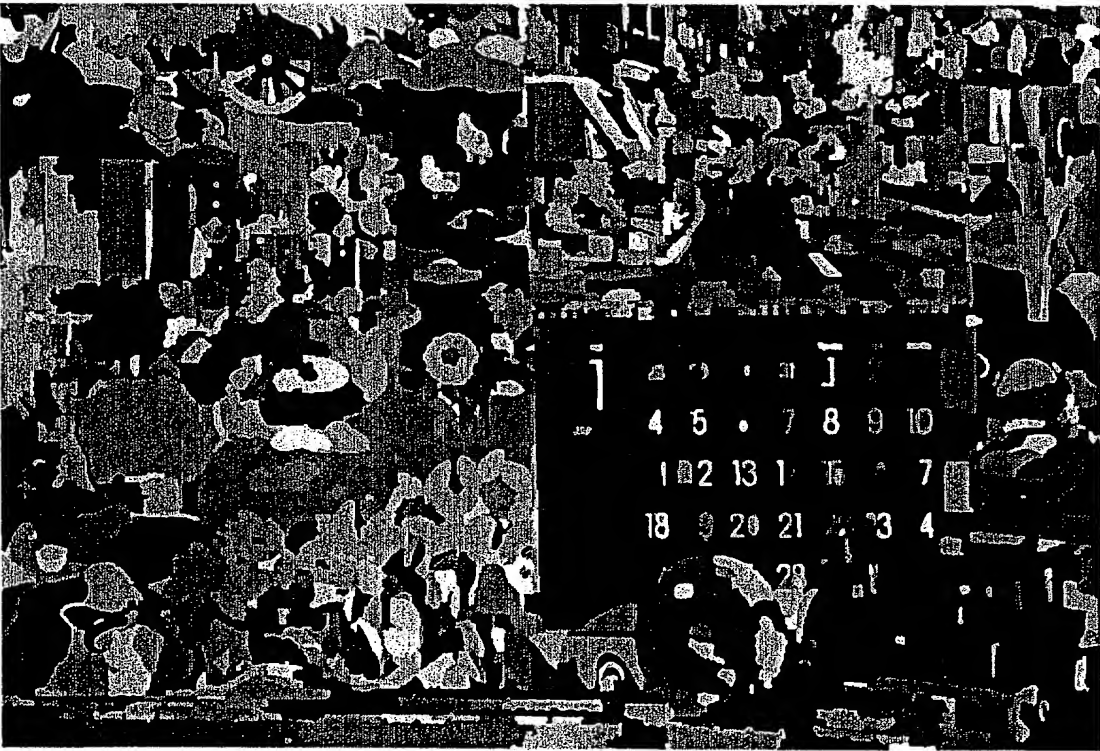


FIG. 14 B

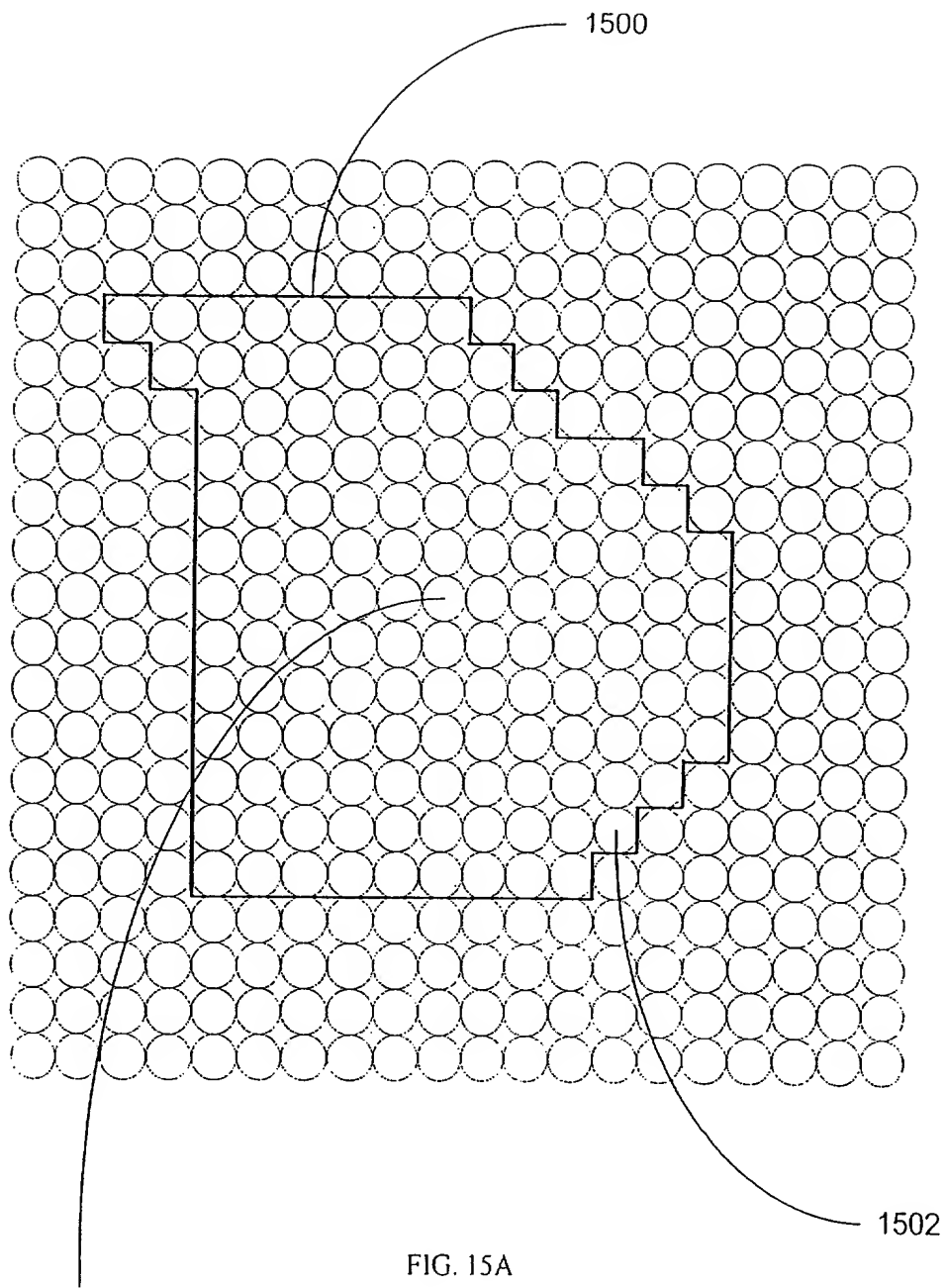


FIG. 15A

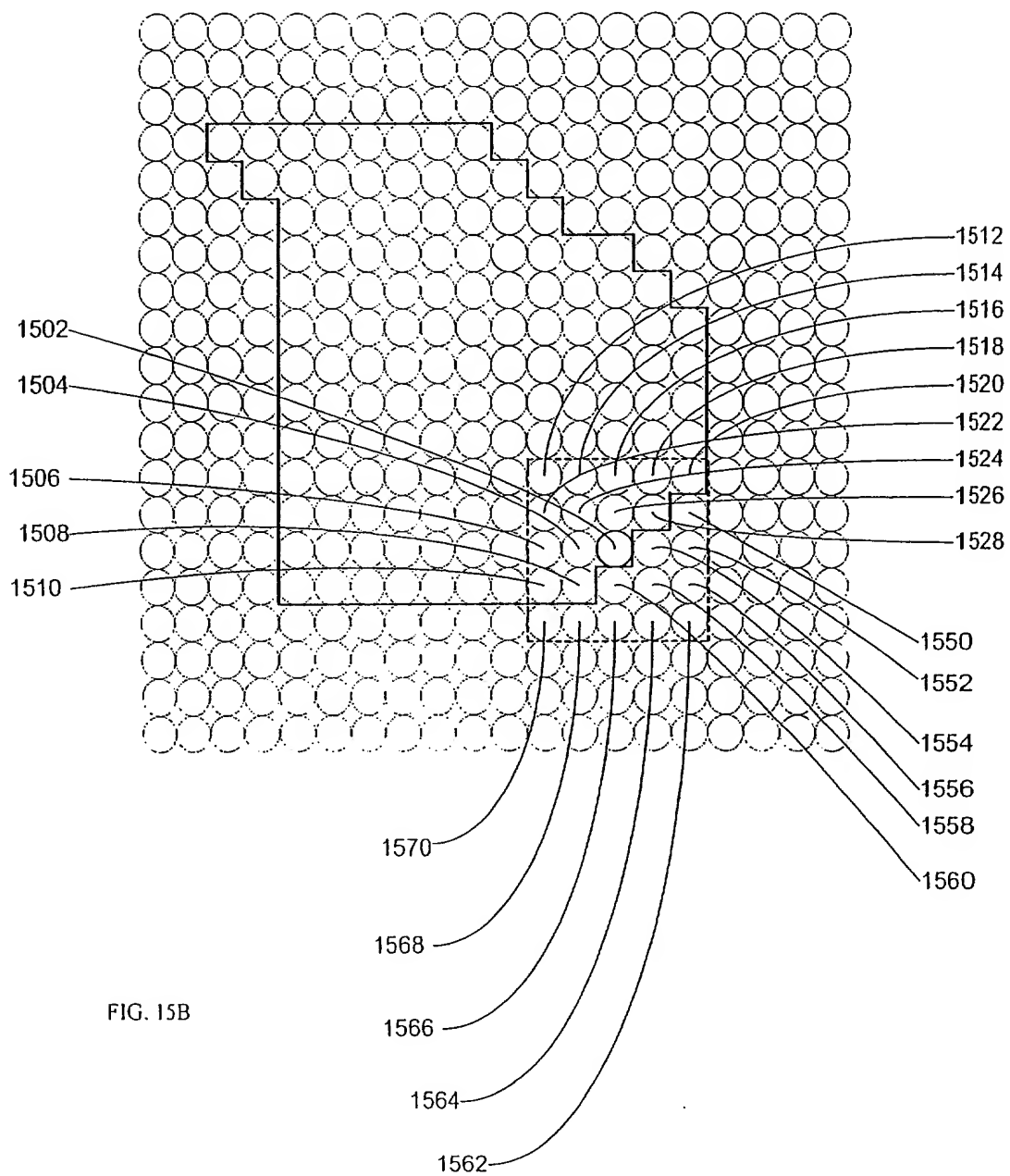


FIG. 15B

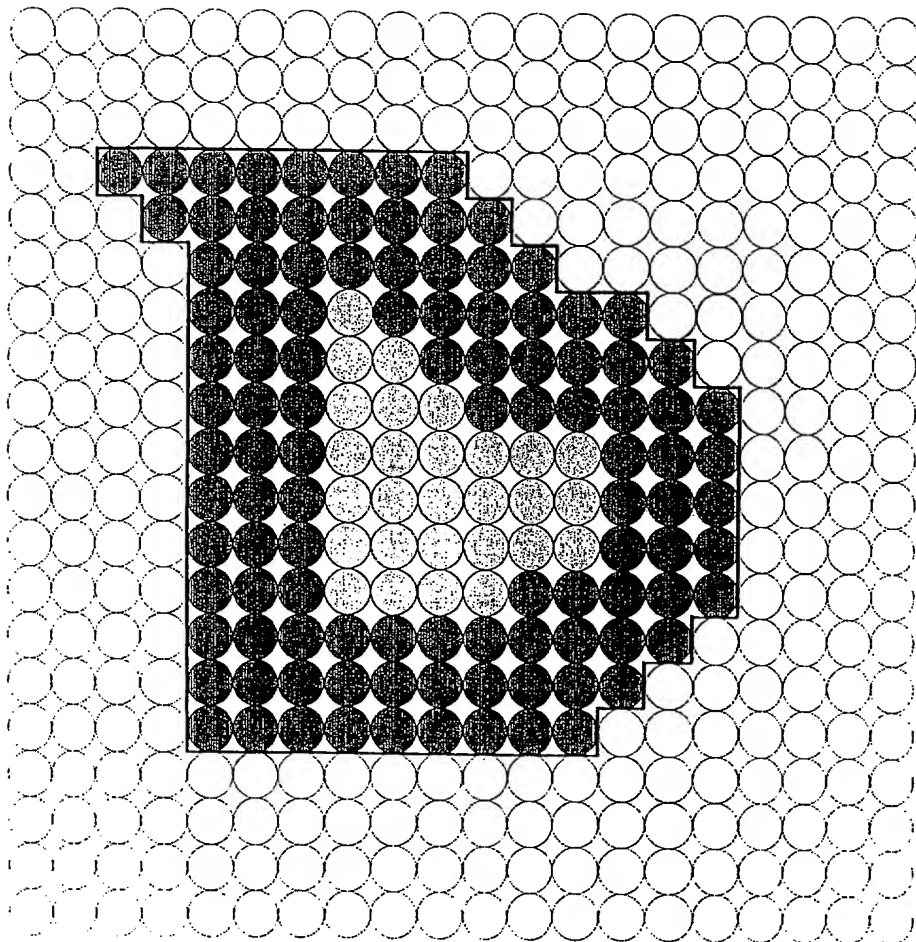


FIG. 15C

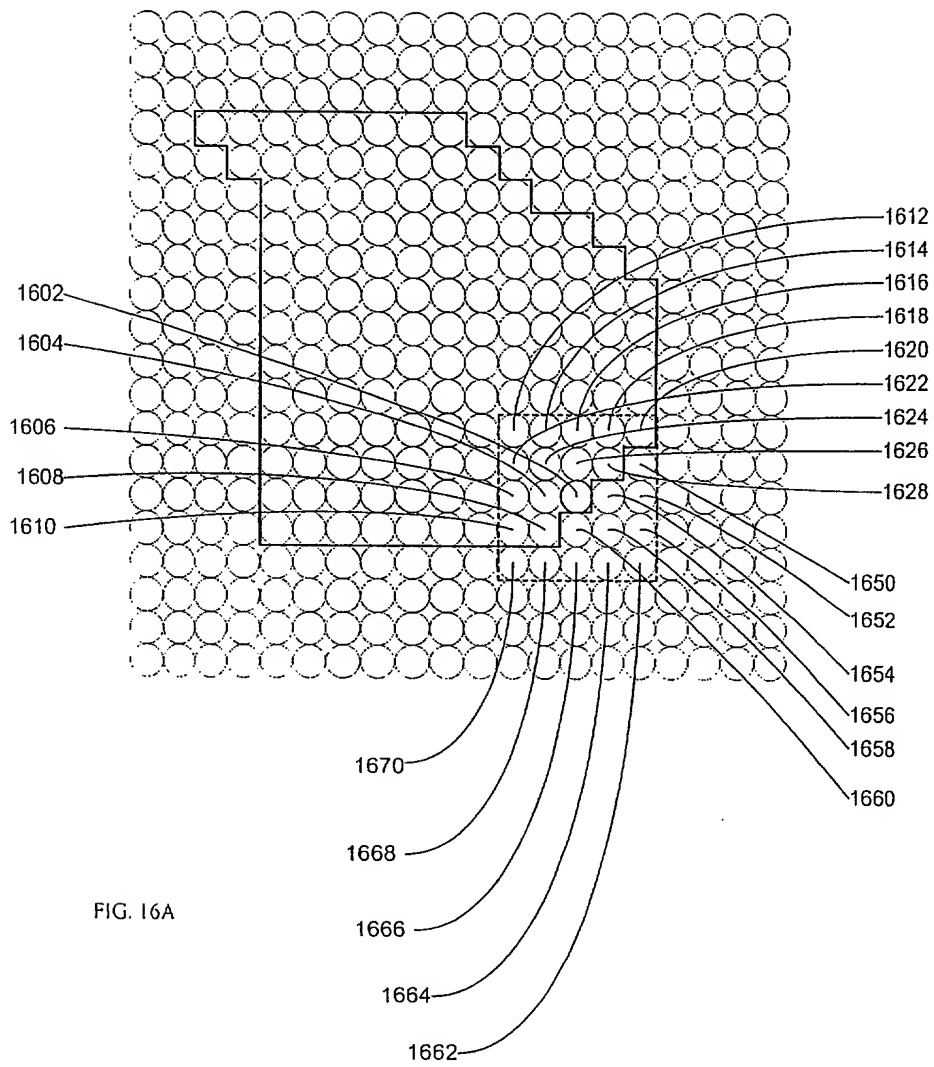


FIG. 16A

FIG. 16B

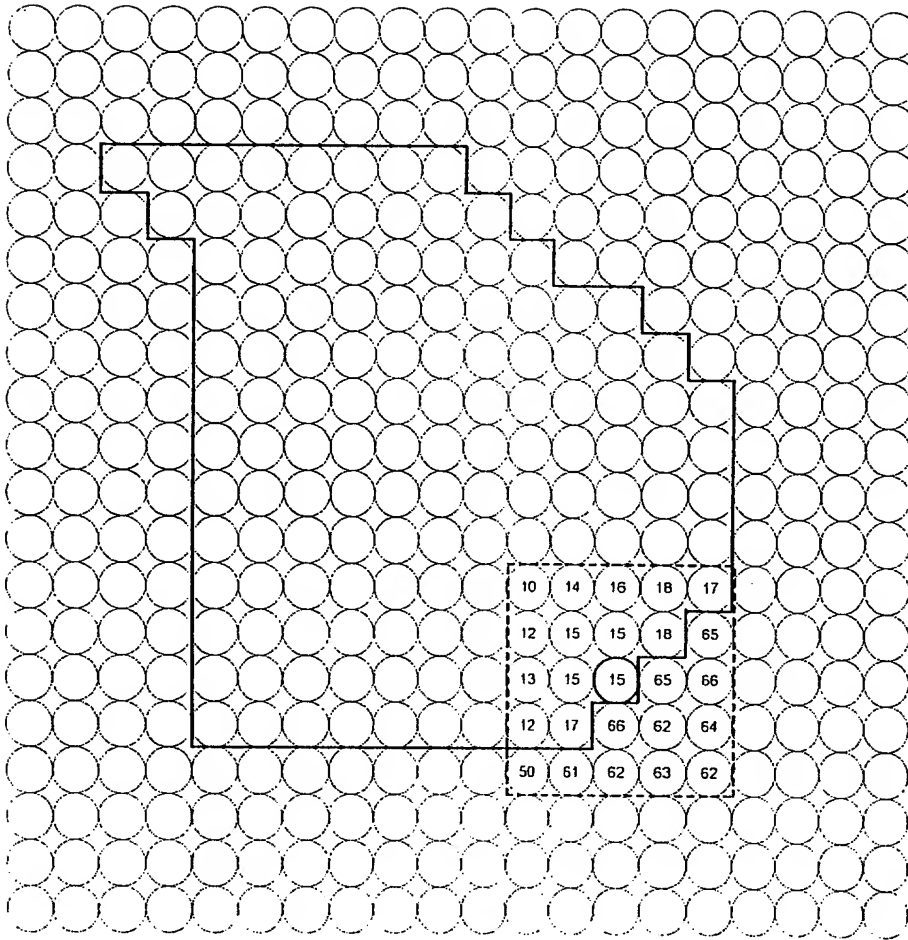
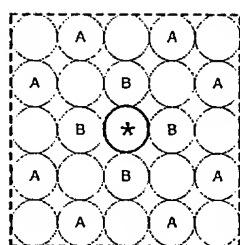


FIG. 16B

FIG. 16C



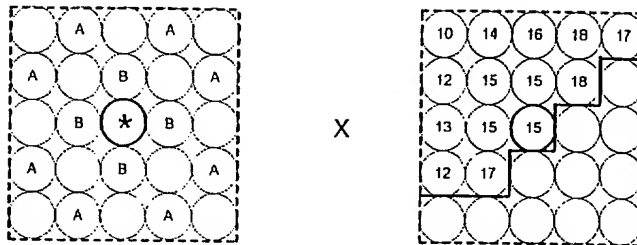
= F

$$A = -1/32$$
$$B = 5/16$$

FIG. 16C

$$A = -1/32$$

$$B = 5/16$$



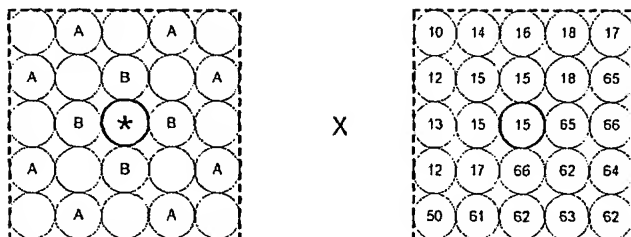
$$\text{Value of pixel } * = 5/16 (15+15) - 1/32 (14+18+12+12) = 7.62$$

FIG. 16D



$$A = -1/32$$

$$B = 5/16$$

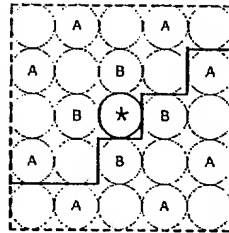


$$\text{Value of pixel} \star = 5/16 (15+15+66+65) - 1/32 (14+18+65+64+63+61+12+12) = 40.65$$

FIG. 16E

$$A = -1/32$$

$$B = 5/16$$



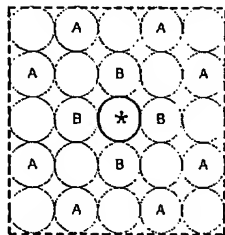
$$\Sigma \text{ weights inside} = 5/16 + 5/16 - 1/32 - 1/32 - 1/32 - 1/32 = 1/2 \neq 1$$

$$\text{Diff} = 1 - 1/2 = 1/2$$

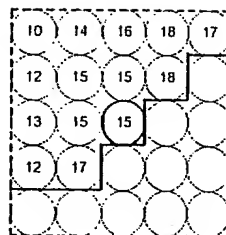
FIG. 16F

$$A = -1/32$$

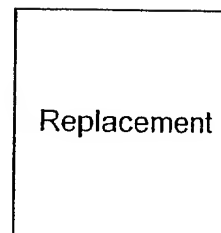
$$B = 5/16$$



X



+



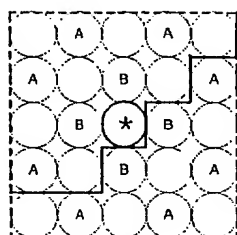
Equation of  $16D + \text{Diff} * (\text{Median inside the segment}) =$

$$7.62 + 1/2 (15) = 15.12$$

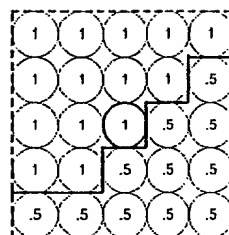
FIG. 16G

$$A = -1/32$$

$$B = 5/16$$

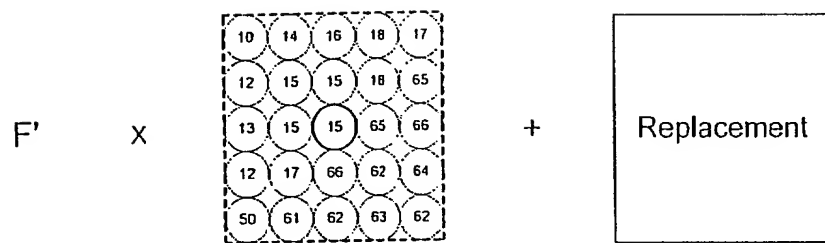


x



= F'

FIG. 16H



$$-1/32(14+18+12+12) + 5/16(15+15) + 1/2[-1/32(65+64+63+61) + 5/16(66+65)] + 1/2(15) = 31.64$$

FIG. 16I

59	37	20	3
41	19	5	22
18	4	20	36
5	17	37	63

FIG. 17A

FIG. 17B

18	2	18	44
41	19	5	22
43	17	3	17
21	4	19	42

FIG. 17B

FIG. 17C

2	18	38	59
5	19	41	61
13	17	43	56
4	21	40	57

FIG. 17C